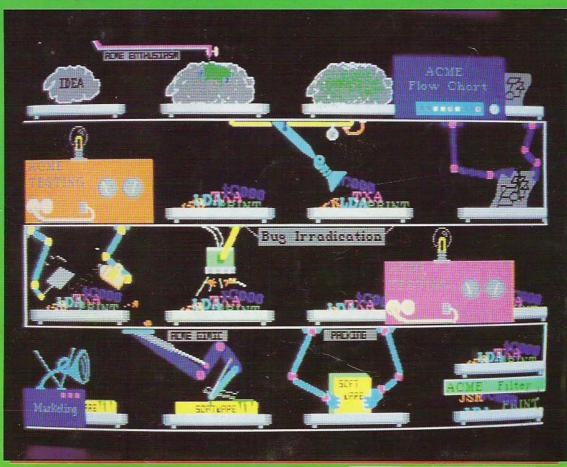
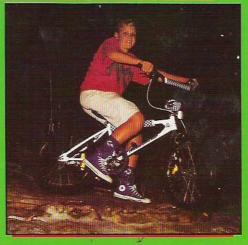
The Australian

COMMODORE and AMIGA REVIEW

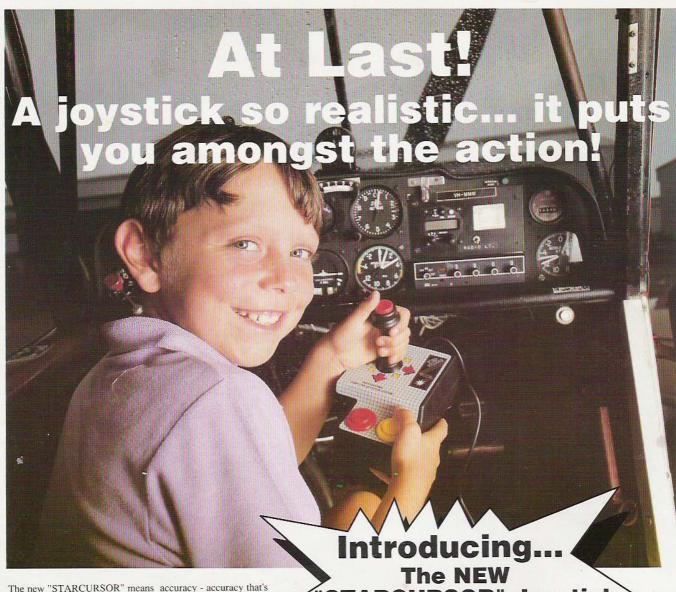
Making Australian software



- Sherlock Super Debtors
- Full list of Amicus disks
- 6 game reviews
- Amiga Fast File System
- ▶ 128 wordprocessing plus comparison chart
- Basic and C tutorials



Win a BMX bike from Questor



The new "STARCURSOR" means accuracy - accuracy that's impossible with a joystick that can't keep up with your reflexes. When you're playing for high scores, you don't want to be handicapped by an inefficient joystick.

... The "STARCURSOR" is the closest thing there is to the perfect joystick... it's fast... reacting to your touch instantly, and it's accurate... giving you the highest percentage of scoring hits possible.

The Starcursor is designed around the commercial "Multicoin" joystick - considered by many coin machine operators to be the best joystick on the market for accuracy and durability. It is tested and proven to last...no matter how often or roughly you use your joystick.

SUITS ALL COMPUTER GAMES

Your Starcursor can be adapted to suit any game with the simple Change over switch situated on the bottom of the joystick. This gives you the choice of a 4 and 8 way action for exact game control.

FIRE POWER - THE CHOICE IS YOURS

As well, the unique "common button switch" lets you use the Starcursor's three firing buttons together, independently or two together depending on the game you are playing.

GUARANTEED FOR THREE YEARS

by the manufactures, Multicoin Amusements Pty Ltd.

Dealer enquiries to:

Multicoin Amusements Pty. Ltd. 17 Wrights Place

Labrador, Gold Coast, Australia, 4215 Ph: (075) 37 5711 Fax: (075) 37 3743

J. Mills Agencies Ph: (09) 344 1660 Fax: (09) 345 1308



"STARCURSOR" Joystick

For fast and accurate game power! Rated by Commodore Amiga Review as "King of the league"

HAND CONFORMING

Easy grip handle with unbreakable 10mm steel shaft

BUTTON COMMON SWITCH

Middle Position: All buttons independant Left Position: Common 1 and 2 Right Position: Common 2 and 3

 $\otimes \otimes \bigcirc \otimes \otimes \otimes$

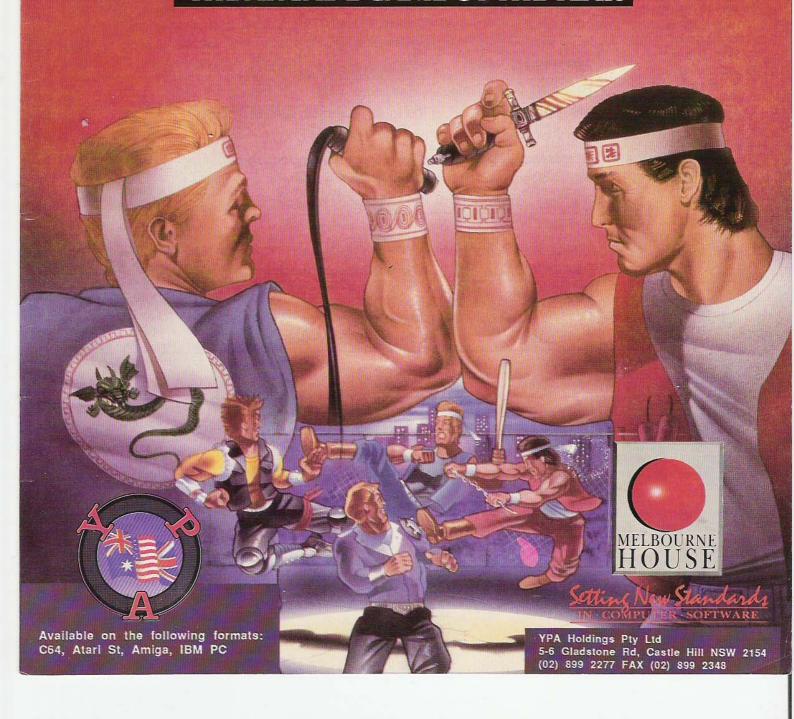
EASILY ADJUSTABLE

4 & 8 way action slide on bottom allows for exact game control



VERSATILE USAGE
Can be placed on knee, in the hand or on a table using easy grip suction caps

THE ARCADE GAME OF THE YEAR



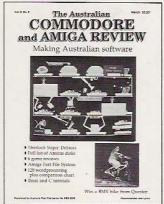
The Australian COMMODORE and Amiga Review

VOL 6 NO. 3

March1989

Contributors
Andrew Baines
Phil Campbell
Oben Candemir
Nathan Cochrane
Damien Disney
Peter Gallen
Michael Hassett
Eric Holroyd
Stuart Kennedy
Marco Ostini
Frank Patterson
Ian Preston
Adam Rigby
Adrian Sheedy
Richard Silsby
Tony Smith
Trevor Smith
Michael Spiteri
Tim Strachan
David Thompson
Harry Waterworth
Graham Winterflood
Cianam willemood

VOL. 6 NO. 3	March1989					
CONTENTS		PAGE				
Editorial	Storm over a joystick	5				
News						
Ram Rumbles	Lots of information from Commodore	6				
C-64ers	C64 and 128 News	8				
Notepad	Amiga News	10				
Entertainment						
Clicked on Games	Entertainment Roundup, Who Framed Rober Ro Captain Blood, Circus Games, Bomb Jack, Cave Ughlympics, Neuromancer AMIGA and C64					
Adventurer's Realm	Help for puzzled adventurers AMIGA and C64	70				
Features						
Making a "Splash"	The latest Australian software house	26				
Word processing	on the C 128 - Part II	27				
Comparison table	of word processing packages	34				
About Slowmemlast	/Ram On Off & Nofastmem AMIGA	49				
The new FastFileSystem	If you have any hard disk it's worth using AMIGA	-50				
Reviews						
Sherlock Super Debtors	Accounting system for the C128 c128	41				
TextEd V 3.0	A full blown professional text editor AMIGA	46				
Programming						
Ctutorial	How to Function in C - part IV AMIGA	64				
Basic BASIC	A tutorial for beginners Part 4 C64	67				
Regulars						
128 corner	GeoPublish Part II C128	52				
Public Domain						
More Public Domain	List of Amicus disks	56				
Advertisers' Index	and Guide to contributors	72				



Australian Commodore Review 21 Darley Road, Randwick, NSW 2031 Phone: (02) 398 5111

Published by: Saturday Magazine Pty Ltd.

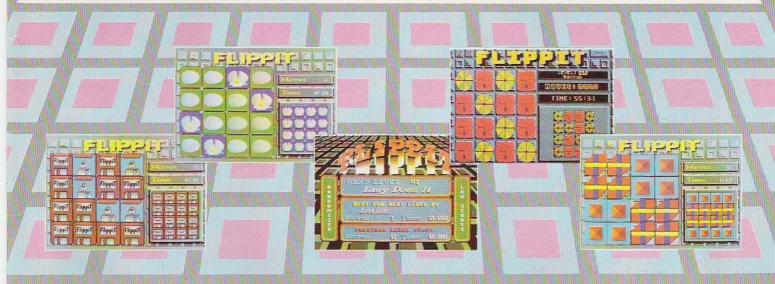
Editor: Andrew Farrell Advertising: Ken Longshaw (02) 398 5111 or (02) 817 2509 Production: Brenda Powell Layout: Tristan Mason Subscriptions & back issues: Tristan Mason (02) 398 5111 Distribution: NETWORK Printed by: Ian Liddell Pty Ltd



THE STUNNING NEW AUSTRALIAN PROGRAM

Tired of the same old shoot-em-ups? Give your trigger finger a rest, and exercise your grey matter, FLIPPIT is a puzzle, FLIPPIT is a game, FLIPPIT is, above all else, FUN. It has over 100 levels, plus a randomizer which will create infinite levels if you ever get all the way through.

FLIPPIT is a game for all ages. It only takes seconds to learn, but it takes years to master.



Available from: Microcomputer Spot, Grace Bros (selected stores), Actcom Computer Centre Belconnen, A.C.T. Harvey Norman (selected stores), Clayfield Computers QLD, Computech Braddon A.C.T. and leading computer retailers throughout Australia.



Best quality, best price and best service insist on products from Pactronics "the userfriendly company". N.S.W: Pactronics Pty Ltd, 33-35 Alleyne Street, Chatswood. (02) 407 0261
VICTORIA: Pactronics Pty Ltd, 51-55 Johnston Street, Fitzroy. (03) 419 4644
QUEENSLAND: Pactronics Pty Ltd, 12 Stratton St, Newstead, 4006. (07) 854 1982
SOUTH AUSTRALIA: Baringa Pty Ltd, (08) 271 1066 ext. 6132
WESTERN AUSTRALIA: Pactronics, Unit 13, 113 High Rd, Willeton 6155. (09) 354 1122

CAPTAIN BLOODD

AVAILABLE ON AMIGA IBM C64 AMSTRAD



Distributed by OziSoft Phone: (02) 211 1266 33/8-24 Kippax St Surry Hills, NSW 2010

Editorial

One of our devout readers recently approached a leading retailer of Commodore peripherals with our recommendation of the Multi-Coin Starcursor joystick. He was met with a very unfavourable reaction. The salesperson suggested our reviews were paid for, that the product was junk, and Commodore Review wasn't worth its salt.



Fortunately our reader

didn't take these comments to heart, and contacted us with the store's criticism to find out the other side of the coin. Here's the facts.

Strange as it may seem, many leading retailers will not stock the Starcursor joystick. Why? It's too good, they say. The customer won't be back for a replacement in six weeks. To me, that is a very sad way to take advantage of peoples' ignorance.

The very fact our reader approached the store with our recommendation shows people do take notice of our reviews. Secondly, not one review is paid for. We often upset our advertisers, and have a strict policy of giving credit where credit is due, and brickbats where they must be thrown. The Australian Commodore and Amiga Review is an independent publication

About the only thing the salesperson in question can be sure of is that more discredit was done to the store concerned than was done to us. We pride ourselves in helping end users. We are end users. I paid \$399 for my Vic 20, and \$699 for my Commodore 64. This magazine is all about you. We are on your side. Thanks to those readers who stick up for us.

In closing I can honestly say the Multi-coin Starcursor joystick represents one of the best made, value for money joysticks around. I use mine to death. Anyone who thinks any differently should have good reason. May I suggest to the salesperson concerned that if you get the chance to read this editorial, I would love to hear why you think the Starcursor is so bad.

Andrew Farrell

The Australian COMMODORE and AMIGA REVIEW

Make sure of getting your copy Subscribe now!

subscrip The Au Review issue. I enclo	enrol me for issues otion to stralian Commodore and Amiga r, commencing with the se a cheque/money order for \$ charge my Bankcard
	number
	3

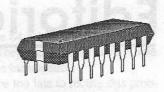
Address:	
	Postcode.
	Please tick applicable box
	First Subscription
	Renewal
TO:	The Australian

TO: The Australian
Commodore
and Amiga Review
21 Darley Road,
Randwick NSW 2031
(02) 398 5111

Rates within Australia: 6 issues \$19.00 (including postage) 12 issues \$36.00 (including postage)

If you don't want to cut this out photocopy it or just send a letter.

RAM Rumbles



Feast or famine

This month we are enjoying a feast of information from Commodore in the form of press releases, general cooperation, and an overall overwhelmingly helpful attitude. Is this the turning over of a new leaf, or a whole new forest? Will this shake up of press relations lead to improved public relations? All the indicators are green, and Commodore is looking ahead to improve things. Read on for the good oil on what's happening.

Commodore International First Quarter Report

First, some official business. The whys and wherefores of big business. These figures have no doubt made it possible for Commodore's world wide trend toward better customer relations.

Commodore reported continued growth in sales and earnings, reflecting increased worldwide demand for the Company's computer products. For the first fiscal quarter ended September 30, 1988, sales were \$200.2 million, a 15% increase over sales \$173.9 million in the prior year quarter.

The increase in sales is attributable to broadbased growth in demand for all product families - the Amiga computers, the MS-DOS PC compatibles and the traditional C64/C128D computers. Compared to the year ago quarter, sales increased in all three product categories, and in all three major geographic markets - Europe, North America and Australia - demonstrating the growing appeal of Commodore computers to a wide range of end users.

The growth in earnings largely resulted from further improvement in Commodore's profit margins, as operating efficiencies and a shift in product mix helped to raise gross margin to 32% from 28% in the year ago quarter. Operating expenses increased as the Company expanded advertising and marketing expenditures in selected countries to support further market penetration and development.

Irving Gould, chairman of the Board and Chief Executive Officer, commented, "We are encouraged by the continuing improvement in operating and financial performance, but remain mindful of the challenges that lie ahead. We are committed to maintaining our growth momentum through the aggressive marketing of competitively priced, superior performance products throughout the world."

Dealers - pull your socks up!

We often read of complaints from customers who have received less than satisfactory service. Commodore is doing something about this problem. It's a tough move, but one that should get a few rethinking their position.

Mr. Tony Serra, Managing Director of Commodore Computer Australia and Asia/Pacific said, "The last twelve months has seen the failure of many computer dealers, large and small, in the market place. As an industry we have got it wrong. The balance between support, sales training and box moving is not there. Price appears to be the governing factor. We realise the problem and intend to rectify it within Commodore's own distribution channels."

As a result Commodore has taken strategic action, and is in the process of sending over 100 letters to dealers around Australia, putting on notice the pending cancellation of their distribution agreement. Commodore only wants to deal with committed businesses which are able to offer superior service to end users,

in whatever market segments they address.

This is a bold step for Commodore, however it is firmly believed that the future of the computer industry depends entirely on getting the distribution channel organized and profitable. The reseller must be capable of buying stock and selling it profitably within realistic trading terms. Their offer should be a profitable mixture of price, service and support.

Tony Serra concluded, "If we can get this involvement in their business management right, we at Commodore will continue to grow against last year."

We wait in earnest to see who goes and who stays. Perhaps a bit of reader feedback could help? We would like to hear from people who've had both good and bad experiences with a particular dealer. Write to the editor.

Commodore Australia hits A\$100 million

Tony Serra, Managing Director of Commodore Computers Australia and



Asia/Pacific, remembers 19 May, 1986 as the beginning of a turnaround in Commodore Australia's history.

The local reorganization, and a five year plan to reach A\$100m was implemented, with calendar 1988 realizing A\$134m gross sales, and a higher than expected penetration of the Amiga and MS DOS markets, and a maintenance of the 6502 market.

Today, Tony Serra announced that the target has been reached, two and a half years ahead of the projected schedule. "43% increase in the first quarter was a good result, we have not consolidated our sales for the second quarter with a 90% increase.

"Christmas sales and across the board increases, including C64, Amiga, PC Colt and PC 10 III, and the injection of \$3m from our recently established Commodore Business Machines division, have been responsible for this excellent result," Serra continued.

Serra commented that the points put in place in 1986, which included more product, higher levels of service and aggressive market penetration, had all been adhered to strictly by his strong, innovative and progressive marketing team. In 1986 Commodore were talking about a dealer delivery base in the Amiga product range of 3,000 units, and in 1988 can talk about a base of 56,000 units. There is no reason to believe that the growth of Commodore in Australia will not continue to outstrip its competitors,

CSIRO choose Commodore for education

Commodore Business Machines has agreed to supply computers for use in CSIRO Science Education Centres in Sydney and Melbourne.

Mr Ross Kingsland, Manager of CSI-

RO Education Programs, said "The programs to be used with these sponsored computers epitomize the role of our Education Centres. The two Commodore Amiga 2000 computers will enable students to experience:

- current CSIRO research;
- the latest technology;
- their applications in the community

The CSIRO programs will also effectively demonstrate the capacity of the Amigas to well over 16,000 visitors to the Melbourne and Sydney CSIRO Centres each year.

One program produced by the Division of Oceanography in Hobart involves data on the infrared levels of the oceans surrounding Australia. The data is received by CSIRO from the NOAA polar orbiting environmental satellite and is used for commercial fishing and ocean yacht racing, as well as for scientific uses in oceanography and marine biology.

Another program developed by the Division of Mathematics and Statistics allows students to use the latest remote sensing technology to zoom in on their own cities, down to street level, to learn about the many uses of the A-Image System. Using Landsat data, this system has many applications in agriculture and forest management, environmental monitoring, mineral exploration and disaster monitoring.

These programs will alert students to a whole new area of Australian activity, space science, and its growing part in our lives. By manipulating data provided, students will be able to understand what information is obtained and how it is used. These future decision makers and scientists will at least know that remote sensing is more than touching an object at arm's length with their eyes closed!!

The Division of Human Nutrition in

Update

I have just heard the most disturbing rumours. It appears that some software importers have not dropped their recommended retail prices in line with the recent sales tax cuts. I think this is particularly disgusting especially when the value of our dollar has gone up as well which should mean savings on most software of a minimum \$5 - \$10 and on more expensive software \$20 or more. This attitude, which is prevalent in many other industries, and has seen practically no retail prices dropped on anything despite the rise in our currency, is, I believe, an indication of nothing but "greed", which I feel eventually backfires.

We have a fascinating new Joystick to offer which is probably one of the most comfortable I have ever used. It has a ball shaped grip, is fully microswitched, has auto-fire, and even three speeds. It is another of the great Challenger series from Pactronics and it is model no. RMT120.

Other new products I may not have mentioned to you are the two new Amiga books - AMIGA C FOR BEGINNERS and AMIGA DOS QUICK REFERENCE GUIDE, and for those of you who have the books, I am pleased to announce we have companion disks for the following:

- AMIGA BASIC INSIDE & OUT
- AMIGA DISK DRIVES INSIDE & OUT
- AMIGA SYSTEM PROGRAMMERS GUIDE
- AMIGA TRICKS & TIPS
- AMIGA DOS INSIDE & OUT
- AMIGA C FOR BEGINNERS

We now have stocks of the Commodore 64 VOICEMASTER JUNIOR which is a fantastic product that allows you to talk to your computer, have it answer you in your voice and accent, it allows you to write music by simply humming or whistling into the microphone, it allows you to put voice into programs you are writing - a brilliant innovation.

Last month I promised you a new competition. Well, here it is. Over the next three months starting with today's column, you must make a list of every product I mention and send the list into us with the recommended retail price against each product (if you have not got one of our price lists please send in for one now, or go to your nearest retailer to see the product and get the price). First prize is \$250 worth of Pactronics products - your choice!

Advertisement

Adelaide has developed a program which will allow students to study the nutritional value of their own diets, or any they devise. The Division already has produced 500 disks with an accompanying booklet to sell to schools and interested individuals for approximately \$60. Having experienced the program at CSI-RO Science Education Centres, schools can buy it for use in the classroom in either Commodore 64 or Amiga format.

Young Australians invited to speak: and win!

A major education sponsorship involving young Australians has been announced by Commodore Business Machines. Together with *The Age* and *Sydney Morning Herald* newspapers, Commodore is inviting senior secondary school students from all Australian states and territories to become the "Young Australian Speaker of the Year."

The competition, run in conjunction with the worldwide "Plain English Speaking Award", brings together the best of Australia's student speakers to contest state, then national awards.

In addition to Commodore Business Machine's \$25,000 cash sponsorship to assist in the organization and operation of the competition, the company will also be awarding Amiga 500 computers to each of the State Winners and to each of the State Winner's schools, along with special commemorative medals, also presented by Commodore.

The National Winner will earn a place in the Pacific International section of the contest. The Pacific International Winner will also receive a Commodore Amiga 500 computer, or Amiga Software to the same value.



€ users...

1541 clones clobbered!

Commodore has finally put a stop to the free flow of 1541 clones using pirated ROMs. Legal action is in the pipeline against five companies alleged to be involved in importing and/or manufacturing drives containing the questionable chips.

Dealers have been warned, although two refused to stop selling the drives. Commodore have already succeeded in clamping down on similar units in the United States. A successful suit was won against several suppliers, including Blue Chip. Keep watching this space for future local developments.

Free Spirit releases Spectrum 128

It will be a Happy New Year in 1989 for 128 owners looking for software which will truly utilise the capabilities of the 128. Free Spirit Software has released *Spectrum 128*, a paint program for the Commodore 128D computer or the C128 with 64K Video RAM upgrade.

Spectrum 128 is a full featured paint program which uses 80 column display for 640 x 200 pixel resolution. The package displays all 16 standard colours and an additional 128 colours through colour dithering. Spectrum 128 is menu operated and requires a 1351 or compatible mouse.

Among its other many features are airbrush, erase, mirror, multi-colour, block fill or erase, pixel editor, colour editor, built-in slide show, uses 128 fast mode, support for 1750 REU, support for 1541, 1571 and 1581 drives, support for most printers, create hexagons, diamonds, octagons, lines, boxes and circles, uses 8 x 2 colour cells, create 3D solids, adjustable font sizes, text mode includes reverse, underline, sideways, mirror, flip, complement and pattern modes.

Spectrum 128 is compatible with Basic 8 files, Print Shop graphics, Sketchpad 128 graphics and News Maker 128. A review will appear in ACR soon, meanwhile try Free Spirit direct at:

Free Spirit Software, Inc. P.O. Box 128/ 58 Noble Street Kutztown, PA 19530 215-683-5609





in co-operation with Questor present

Program of the Year competition

also sponsored by Australian Commodore and Amiga Review

Here at Australian Commodore and Amiga Review we get to taste the best and the worst of computer software. Now we are on the search for a hot fresh idea. Anybody can enter who can think up and put into writing an idea for any type of program that could work on a Commodore computer.

Apart from the prestige of being named as the Program of the Year initiator, a Grand Prize is also being offered. Rainbird/Firebird, a leading entertainment software company, in conjunction with Australian aggressive entertainment distributor Questor, are offering a fabulous BMX bike to the winner.

Ten runners-up will receive a selection of top new games titles of their choice from the Questor range.

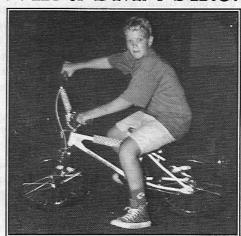
To enter, submit your idea in whatever form you prefer, to the editors of the *Australian Commodore and Amiga Review* before June 1st. Your submission will be judged based on presentation, originality, imaginativeness and feasibility.

We look forward to checking out some of the sock-removing game concepts, utility programs or productivity software that you've got rattling around in your imagination.

CONDITIONS:

- 1. Attach your name, address, age and phone number to your entry.
- 2. Send a stamped addressed envelope if you want your entry returned.
- 3. The competition is open to any person of any age, with the exception of employees or relatives of employees of Questor, Rainbird/Firebird or Australian Commodore and Amiga Review.
- 4. The judges' decision is final, and no correspondence will be entered into.

Win a BMX bike!



New products and news From the USA

by Peter Ward

One of the newest items available now in the USA is the Amiga 2500. As previously announced by Commodore, this machine boasts a 16Mhz 68020, running at 14. 3 Mhz, a M68881 Math Co-processor with a 68851 memory management unit, a 40 Meg Hard drive, with the 2090A autoboot controller, plus megs of 32 bit memory in addition to the standard one meg of 16 bit now supplied on the A2000. In short, the stuff dreams are made of. The RRP? a cool \$US4699,00, though through discounting, the unit I saw was selling for a paltry \$US3999,00.

New software releases include Falcon by Spectrum HoloByte, a F-16 flight simulator which makes Interceptor pale in comparison. The two disk simulation comes complete with a 130 page flight manual!! and behaves like a real aeroplane should a word of warning, my USA supplied NTSC copy will not work on my PAL Amiga-sigh. Other new games which are selling well are: DRAGONS LAIR, STRIP POKER II, DUN-GEON MASTER and OUT-RUN. Aegis have released AUDIOMASTER II, a stereo revision of the original with

sampling rates of 44Khz for 68000 based Amigas, and even higher for 68020 machines at 56Khz.

Mr David Boyles of Microillusions informs us that there is truth in the rumours of a sequel to Faery Tale, though he did not give away too much by saying that it 'would be a new innovative game, breaking new ground much the same as Faery Tale did".

PHOTON PAINT II will be released on March 1st, and will include better control over luminosity, contour mapping, animation, pantograph and rub through modes as well as stencil feature. The will be a price increase of \$US50 on the original version. Other soon to be released products from Microillusions are JDX2, a still very secret and highly innovative program which will work with their Cell Animator, and an EDIT DECISION LIST PROCESSOR, a package for the home video enthusiast to help with the editing of video scenes. MUSIC-X has an official release date of March 1st, though with Planetarium and Land of Legends there was no official word.

Electronic Arts will be releasing DELUXE PAINT III in March. New features will include: colourizing, animation, extra-halfbright support, overscan and 3D wrap-on

brushes. Upgrades will cost global setting of all parame-\$US50 to registered users.

their accelerator boards are upgrading to a type II board, March 1989 as well.

Byte by Byte have released SCULPT ANIMATE 4D, (available since before Christmas) with significant improvements being: faster rendering, hot keys and an interactive object editor. RRP is not cheap at \$US499 .95, guage has over 50 commands though upgrades for existing users will make it significantly cheaper at \$US195.00.

A-Talk III shipping, plus other upgrades

A-Talk III, the latest rendition of the popular communications and terminal emulation program for the Amiga computer, A-Talk Plus, is now shipping. A-Talk III has added Zmodem, Ymodem and Ymodem Batch, an expanded Script Language as well as an ARexx language interface making it one of the most flexible and complete communications packages on any computer.

Terminal emulations included with A-Talk III are: VT100, VT52, H19, ANSI, TTY and Tekronix 4010/ 4014. The Tektronix emulation features both interlaced and non-interlaced versions.

Other communications features include automatic dial and redial, 60 number phone directory, single screen for

ters for host systems, selecta-CMI having had a few ble redial time and number of compatibility problems with redials, and relaxed timeouts for public networks.

Graphics can be captured which will be available about in both IFF format and Aegis Draw format for export to graphic programs. In conjunction with the terminal emulation mode, this allows down loading of graphics from mainframes for export to programs on the Amiga.

> The expanded Script Lanwith a Learn Mode for easy creation of Scripts. Sample Scripts for numerous on line systems are included in the manual, as well as detailed explanations for each command.

> A-Talk III lists for \$99 (US). Shipments have commenced through the normal Oxxi distribution channel. Oxxi is offering upgrades to registered owners of A-Talk Plus. Upgrades are available for \$25 (US) plus \$4 (US) for

> MaxiComm registered owners can migrate to A-Talk III for \$50 (US) and the same \$4 (US) for shipping. Diga! and Online trade-ins are available for \$60 (US) plus the same shipping charges when accompanied by the manual covers and the original program disks for these products. All orders can be placed by mail at Oxxi, PO Box 90309, Long Beach, CA 90809 or call Oxxi for further details at (213) 427 1227. (We recommend you organise upgrades direct with the US for speedy results.)

One Million Dollar Software Acquisition Campaign

Las Vegas, Nevada - The Disc Company unveiled its plans to invest over \$1,000,000.00 during 1989 to acquire innovative software products for the Commodore Amiga personal computer.

"The Disc Company is aggressively seeking new products that offer distinct benefits to our customers and that will differentiate our company from the competition, "according to A. Robert Kotick, TDC President. "We are offering independent developers an attractive compensation package consisting of generous advances and significant royalties, and because of our financial resources and marketing talent we expect to attract a number of noteworthy submissions," Kotick continues.

With its corporate offices in Ann Arbor, Michigan and European headquarters in Paris, France, TDC distributes its products through an international network of distributors in North America, Europe, the Middle East, Australia and

TDC will launch an inter- music disks national advertising campaign in all the major Amiga periodicals which details the ways in offer existing small software cian to participate flawlessly. publishers an opportunity to cess to international markets.

The Disc Company - Amiga products, TDC will keyboard making an off-key the Aegis BBS. The BBS is enter into agreements with software publishers for other computer platforms who may wish to convert their programs to take advantage of the growing Amiga market.

While TDC will evaluate all submissions, programs of particular interest include audio products, video and graphics programs and entertain- that nothing like this is availwhose software shows special promise will receive in-depth technical assistance and the financial support necessary to bring the product to market.

"TDC has established an extensive international distribution network which has enabled our company to generate significant revenues. During the next year, we plan to invest \$1,000,000.00 in the expansion of our product line. Aegis goes Those developers who participate with us stand to benefit handsomely" concluded Ko-

Perhaps local developers looking for market penetration from an enthusiastic company should seriously consider

Aegis interactive

Aegis Development, Inc. has announced the release of Sonix SoundTrax Volumes which independent software One & Two, a series of highartists can benefit from TDC's quality interactive songs for worldwide publishing net- Aegis Sonix. SoundTrax will work. In addition, TDC will allow even the amateur musi-

Written and performed by participate in its Affiliated La- Jon Rami, these disks offer bel program - through which the ultimate sound clarity by small publishers can gain ac- using clean sampled instruments. Each song has keys In addition to seeking new carefully set on the Amiga

not almost impossible.

worked with Stevie Wonder, information on Aegis products Ray Parker Jr., and the Drift- and services. ers among others. Work in the Marshall Amps has qualified cludes support for technical Jon as a professional in the questions, warranty and update music field.

ment products. Programmers able for any other music programs," says Jon. "Being able coming contests, and much, to play along with these much more! songs will bring the musician out of everybody."

this product soon.

online

Santa Monica, CA - Aegis Development, Inc. is proud to announce the reinstatement of

designed so that anyone with a To his credit, Jon has modem can call for the latest

The Aegis BBS is online past for Roland, VOX, and 24 hours every day and ininformation, product an-"I'm very pleased to say nouncements, beta test information, product demos, direct access to programmers, up-

Unlike most other bulletin board systems, the Aegis BBS The SoundTrax Volumes, is a free service to customers each containing two full disks you pay only for the phone of songs, will be available in call. The Aegis BBS can be January at a suggested retail reached by calling (213) 399price of \$19.95 (US) each. 7316 300/1200/2400 baud, 8 Local distributors should have Data Bits, No Parity, and 1 Stop Bit. The Aegis BBS offers full colour support so ANSI terminal packages are recommended.

> If you can spare the ISD phone bill, at 2400 baud it would be a worthwhile call.

AMIGA PRODUCTS

Star NX1000 colour/mono printer, Star NX2410 printer.

20, 40 Mb hard disk systems for all Arniga models.

All-Australian Starcursor joysticks, 3 year warranty, \$49.95

All Pactronics products available.

Quality Computer and printer accessories.

Latest Amiga Magazines, other publications and software available.

Bi-monthly Amiga workshops.

Tuition classes for beginners - bookings essential.

WHITE'S COMPUTERS (02) 634 6636

37 Daphne Ave. Castle Hill 2154. Bankcard/Mastercard/Visa Welcome.

Entertainment Roundup

by Andrew Farrell

ReadySoft's Dragon's Lair arrives at Last

It's here! Our office has come to a grinding halt. April may never be printed, and even May could be affected. The six-disk game to end all games. A new blast-your-socks-off product for Amiga fans, and adventure freaks.

Dragon's Lair, the awesome arcade game that caused such a great sensation, has finally arrived for the Amiga. Our review copy arrived from Questor a mere matter of moments before going to press - so next month there will be a full pictorial. But for the moment, let us heartily recommend you take a look at the astounding quality of this game.

However, only play it from distance. It will enthrall you for hours otherwise, roping you to the joystick for more time than you may have to spare. Be warned, this game will get your attention.

Also new from Questor is Bomb Busters, the game that provides hours of fun as you fight your way through 100 levels of play to deactivate the bombs that are guarded by powerful robots throughout the famous buildings of the world, the world you must save from their destruction.



If you like action, you'll love Gamust prepare yourself and the rest of the Star Warriors for victory and freedom of your planet of the Deathbots and the evil forces that guide them.

Two other games on their way to Australia include Rock Challenge and Cosmic Bouncer the maze game.

Fish

The tide is turning in the teeming metropolis of Fishworld. The oceans and seas are boiling off into space. The Seven Deadly Fins - an inter-dimensional group of anarchists are on the loose they will stop at nothing to destroy all forms of life as we know it. Motivated by profit, strategic advantage and, most of all, fun.

At Mission HQ, a team of crack interdimensional espionage operatives attempt to overcome this hideous force. You are to be part of this operation acting as a trainee inter-dimensional espionage operative. Operatives will be trained in a technique known as warping - a painful but effective method in trying to beat the Seven Fins at their own game.

From rain-soaked forests and London recording studios to the farthest reaches of time and space, Fish will bemuse, dazzle and thrill you before confusing, razzling and killing you.

Fish is now available on the Atari ST, Amiga and IBM compatible computers. Full review is on the way next

Live'N'Let Die from Elite

Another Questor game. Ian Fleming's famous 007 movie has now been placed on computer. Questor's Tim Allison, the man whose sheepish smile has erked available) in first place and Carrier Com-

many a game into submission, asked nymed. Playing as a Star Warrior, you Elite why they choose this movie to

> Their answer was to watch the movie and pick out the best action scene, and then he would know.

> As most of you probably know the movie is famous for its incredible boat chases, and so that is what the game is all about.

> The game is a mix of motorboat simulation and arcade sequences, as James Bond battles against the agents of the deadly Spectre. C64 and Amiga releases are on the way.

Telecomsoft Wins Top Overseas Awards

Telecomsoft has scooped several of the 1988 Generation 4 Gold Awards in France and the Soft Today's Reader's Awards in Denmark.

Generation 4 - one of France's leading computer games magazines - has awarded the company five first places. Other Telecomsoft titles gained many second, third and runner-up places.

Rainbird Software was voted the Best Foreign Company of 1988 and Firebird Software followed closely in third place. Rainbirds's Starglider II took the second price in the Game Of The Year 1988 section.

Also, Telecomsoft walked away with the first three places of the Best Strategy Games awards. Carrier Command came in first place, Universal Military Simulator second and Sentinel third. Tracker was a runner-up.

Fish took the top award as the Best Foreign Adventure Game with Corruption in second place. The Best Simulation award went to Elite (which is now



mand in second.

Finally, the first prize for the Best 3D Game award was given to Starglider II with Virus third. Carrier Command was a runner-up.

In Denmark, the readers of

Soft Today magazine voted Bubble Bobble (Eric Holroyd's favourite) the Best Game Overall in 1988 with Starglider II coming third. Starglider II (hard to play, even harder to beat) also gained second places in the Best Graphics and Best Action Game sections. And to complete the impressive array of awards, the Soft Today readers elected Telecomsoft the Best

Software House of 1988.

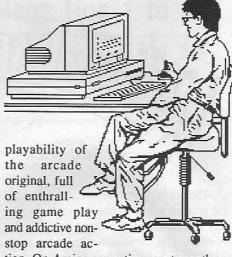
Flying Shark

Watch out for Flying Shark, Firebird's latest coin-op conversion and already a massive hit in the arcades.

Licensed from Taito, Flying Shark is a fast and furious vertical scrolling shootem-up. As a lone fighter pilot you must meet the challenge of a lifetime in a ferocious battle against enemy forces armed with an endless supply of bullets and too few devastating smart bombs.

The game play takes place through five lethal levels, including attacks by squadrons of planes, frenzied fire from tanks and gun emplacements and deadly attacks from battle shops and patrol boats out on the high seas.

Bobble coin-op conversion, Flying Shark contains all the essential features and



tion. On Amiga some time next month.

Well, that's it for now. We've all got Just like the highly successful Bubble to get back to Dragon's Lair. See you next month! Meanwhile, check out the game reviews.

**** C64/128 & Amiga Progam Disks at JUST \$5.00 EACH! ★★★★ Commodore & Amiga Software Club

At last a Software Club that caters specifically for the Commodore user with thousands of excellent quality Public Domain & Shareware programs for both the C64/128 and Amiga. Your membership fee of just \$50.00 per year will make available to you a vast array of great programs from GAMES to EDUCATIONAL to UTILITIES to GRAPHICS & SOUND to BUSINESS to COMMUNICATIONS and everything in between, and the list is growing continually! At just \$5.00 per disk you would say that was a pretty good deal, right? Well read on ...

YOU BENEFIT 8 FANTASTIC WAYS!

- 1. Free and automatic membership to the exclusive Island Bulletin Board system. (03) 742 3993
- 2. Catalog Disk listing all currently available progams.
- 3. Magazine on a disk keeping you up to date with news and views from the world of Commodore.
- 4. Hardware & Software specials at super special prices to Club Members!
- 5. Access to the ISLAND Database on Viatel if you have Viatel membership. (Node 66697)
- 6. All orders are GUARANTEED to be shipped within 48 business hours.
- 7. Your exclusive Island Software Club Membership Card.
- 8. Exclusive membership to the most progressive Software Club around!

Why not join in this most exciting venture right now?! Just fill in and send the order form below using our FREEPOST address, and we'll have your membership in the post to you. If you require further information, then write to me personally, Ross Skinner, at the same address or call on (03) 741 9981. We'll be waiting to hear from you!

ISLAND SOFTWARE CLUB MEMBERSHIP send to: Island Software Club FREEPOST 49 P.O. Box 381 Werribee VIC 3030

No & Street	· City/Town:				
State: F	Post Code:				
Phone: ()	Computer: C64(_)C128(_) Amiga(_)				
Payment Type: Bar	nkcard (_) Mastercard (_) Visa (_) Amex (_)				
	Diners () Cheque () M/Order ()				
Card # (_) (_) (_)					
Expiry Date:/_/	_ Todays Date: / /				
Card Holders Signa	ture:				
Cheques & Money (Orders should be made payable to: ISLAND BY MAI				

MAMIGA



The acclaim was tremendous. One of the greatest achievements in cinematography animation ever to come out of Hollywood. The combination of on-screen graphics and real, flesh-and-blood human actors. Heralded as a summer sensation with certain success, Who Framed Roger Rabbit was a brand new, upgraded step in innovative achievements.

Almost without saying, Steven Spielberg was naturally involved along with the talented masters at Walt Disney productions. What they have produced has been a delight to audiences of all ages. So, again, we, the home viewers, as it were, eagerly anticipate the release of a possible video game accompaniment.

It's happened! Fully serviced by the Amiga potential to winningly recreate the dynamic effects of the movie!

Roger Rabbit: the game

What is that daffy, whacko harebreath creature up to on the smaller screen? Do we get to enjoy the presence of his voluptuous wife? Is there still the fearful dread of his dangerous enemies? Are the settings as shadowy and twisted as the film?

Let's see.



The game opens up in the post-war year of 1947. Here we find ourselves on the streets of Hollywood and Toontown (home of all the cartoon heroes of the day). The streets are vibrant, bustling, busy in the relief-filled aura that flows after such a terrible war. People want to laugh again, thrive upon the comedy and fabulous fun of the cartoon experience.

Roger Rabbit is the Toontown superstar. His naturally lobotomized brain is just the personality needed to split the sides of the movie audiences, and such a comic talent is well-received



across the land. But success hasn't gone to Roger's head, or even further to the top of his shaggy, white ears, Roger's just a great guy, pleasant and unobtrusive. He's the kind of rabbit you would be happy to hang out with and call your friend. Probably even a lot nicer than the bunnies you yourselves associate with even today

The difference, though, between a living, coloured sketch on paper is that It has the power to dissolve Toons on Roger is real. A three-dimensional breathing character that works and plays along with the rest of the inhabitants of out of evil Judge Doom's clutches. As Toontown's suburbia.

roon Cartoon studios. This is where all the Toon characters work and make themselves into the big stars of the animationscreen. They love living here and life in 1947 is pretty good.

But all is not well in the land of makebelieve. The magic walls of this animated kingdom are beginning to crumble as con-

spiracy and wicked deeds seep in to undermine the well-spring of goodness and humour that their beloved audience thrive upon.

Roger Rabbit, our lovable, furry buddy, is framed for the murder of Marvin, the Gag King. Now, Marvin's estate is in doubt, as his will is also suspiciously absent and the Toon characters look set to lose everything if they cannot prove that Marvin, the owner of Maroon Cartoon Studios, left everything to them!

Roger, despite his hare-brained, freewheeling, madcap antics is looking at a severe case of injustice. He's the only one with the capabilities to disprove the wretched case against him. Now, Roger is on the lam with a sinister, relentless foe hot on his bunny tail - Judge Doom! Judge Doom is a committed Toon-hater. He will do anything to see the Toon characters miss out on their golden inheritance. Not only that, but Judge Doom has his own dastardly method of administering "justice" - in the form of a nasty concoction known lethally as "The Dip." contact.

So Roger has to move fast to stay the details in the accompanying booklet The employment generating the in- conclude, "it is not that he minds an occome for all these characters are the Ma- casional bath, it is just that he would



icked on Games icked on Games

rather not be all washed up so early in his career!".

Our job is to help old, funny bunny Roger to move quickly and stay out of the clutches of bad Judge Doom. They are both off now in a frantic race to find Marvin's will which will prove that Roger was one of the recipients of the Maroon Cartoon Studios and therefore did not have the subsequent "need" to ever murder Marvin, But Doom has an even more wicked plan! Chemical warfare! Armed with barrels of The Dip, Judge Doom has set out to wipe all the Toon characters off the face of the planet!

Part One: Benny the Cab

Benny is a free-wheeling, streetwise (the puns get really heavy here) and usually "reckless" Brooklyn cab with the gift of the gab. Able to hop buildings and rise above all the traffic and with his amazing accordion suspension, Benny the cab is a real asset for Roger Rabbit to have around town.

You are at the controls as Roger and Benny race Judge Doom through the crazy streets of Hollywood. But you can beat them. You must, though, watch out for the weasels in their Toon Patrol wagons and puddles of the deadly Dip. Also, collisions with red street cars are almost always inevitable. Here, though, are very helpful implements to be obtained as you hurtle forward through the traffic: Rubber Gloves, Wheels, and Diamonds. Rubber Gloves, as with the other two icons are



brick walls of buildings along

the streets.

They temporarily protect Benny from give an extra burst of speed, which is very essential when racing Judge Doom's big, black car to the end of part one. Diamonds are a trade-in bonus for subtracting a barrel of The Dip from your tally.

The action happens on a left to right scrolling screen - which is rather jittery but still captures the imagination.

Part Two: The lnk and Paint Club

After the speedy and frenetic dash through the streets of Hollywood, your immediate destination is to get Roger Rabbit and Benny the Cab to the local Cartoon industry hang-out called The Ink and Paint Club. This is the only place in the world where humans can enjoy live performances by Toon stars like Roger's gorgeous wife, Jessica. Jessica is the superbod redhead above us in the illustration. Need we say more?!

The reason for stopping off here at the Ink and Paint Club, despite the intensity and immediacy of the search, is due to this establishment's holding of a very important piece of puzzled evidence to the story and crime. Marvin the Gag King's will is somewhere in the piles of nightclub receipts, napkins and checks. And what else can you expect from the Gag King himself but the fact that his will has been written with disappearing ink. Now Roger, through your skillful ability, must grab all the papers in the club and locate the will before the music stops!

In this scene, you will enjoy the brilliant, totally entertaining chase around penguin waiters. They whirl around replacing pieces of paper even faster than

obtained by jumping Benny Roger can collect them! But somewhere across them as they hang on the in this pile of papery debris is Marvin's will and the solution to the now famous question: Who Framed Roger Rabbit?

But be careful of the gorilla bouncer the lethal puddles of Dip. The Wheels who can chuck you out the door and into the alley in a heartbeat, and the glasses of drink the penguin waiters deposit to the tabletops among the papers. If Rodger gets even a sip of one, it will go straight to his head and you will lose control of this particular sequence, resulting in yet another barrel of the dreaded Dip being added to your score card.

Part Three: The Gag Factory

Touchdown! This is your final destination. The place where it all happens. Here, the fabulous Toon characters come to life, fueling their joking repertoires from the manufacturing gag pools. But watch out! Here is especially where the deadly weasels of the Toon patrol are waiting to jump you and Roger. But don't give up - just grab the gags you find here and use them to temporarily disable the weasel you meet in the factory. Since weasels are Toons, your only hope of permanently destroying them is by making them laugh themselves to death. Do anything funny, the more gags the more lethal and you have a good shot at getting Roger out of there in a happy, livable state.

However, if you survive the weasels, it's still not over. Judge Doom is still waiting for you, ready for the cliched moment of truth. Lose, and it's "that's all folks" for you, Roger and Toontown. Defeat Judge Doom, however, and you save the precious Toontown from total devastation and retain Hollywood's animated niche of creativity.

Opening screen is a display of a rusty the table between Roger Rabbit and the red brick wall with a spray painted sign declaring that you are right now sitting in a Loading Zone. You begin to realize

Clicked on Games

the flavour of the game from the music that is played, upbeat, jazzy tunes from the forties, setting you into the smokey, cornered atmospheres of the day.

The graphics are excellent. What you see in the movie is virtually what you get on your Amiga screen. Playability is easy and enjoyable. Once you get the hang of the joint fire button and lever control, you'll have Benny the Cab rocketing through the air, over buildings and cars and avoiding the dreaded Dip in no time.

The scene inside the club is fabulous! Almost a kind of modern-day musical chairs as the band plays and you race around with the hilarious penguin waiters.

One disturbing flaw in the game, however, is the fact that the first part of the game gets the most wear. I think your disk may start to get a little lopsided by the fact that if you do not manage to successfully overcome the road chase you will not get on to the next phase. The people around me who have played the game all agree that it would be a lot more preferable to store up a margin of points through each sequence and get a better shot at attempting the final parts more often. Once you tally up five barrels of Dip the game ends and you must reload to get back to square one. It becomes infuriating having to wait, believe me!

But all in all, Roger Rabbit is definitely one of the most worthwhile Amiga games around for the 1989 season. It is great entertainment, it's fascinating and a very welcome change from the normal genre of cliched, shoot-em-up arcade features

Check it out!

Distributed by OziSoft (02) 211 1266 RRP Amiga \$44.95 C64 disk \$35.95

Captain Blood

by Andrew Farrell

Let me clarify - Captain Blood, as in Mr Blood, not Captain of gore and disgust. You're a man with a mission. Save yourself, before the galactic jitters shake your fading body into obscurity.

This is the first game ever where I sat down and read the plot. Without the book, containing the plot, the game is very difficult to get into.

During experiments with a new program you were writing, a disaster occurred. You were replicated. Five times in fact. Throughout the galaxy your clones walk, and they're killing you, sapping your life fluids.

The job ahead is to seek them, and destroy this electrobiological mishap. Equipped with a ship filled with baby pods to take you there, or at least to see what's there from the pods' point of view, you head out on your quest.

Along the way you will meet many types of life forms, from barely intelligent to walking encyclopedias. From these creatures, using a complex interpreter, you are able to extract information, and discover the various issues facing inhabitants of the world you explore.

You begin in the organic-like cockpit of your craft. From here you may send the pods on a mission to explore, land on, or destroy a plan-

A view of your surroundings appears through the view-finder. A planet, a scan of the surface to reveal hidden defenses, or your journey along its surface. The latter being the most amazing piece of graphic work seen for some time here at *ACR*.

The scenery is rugged mountain ranges, represented by Fractal graphics pioneered by Lucasfilm. As you fly into the canyon where the creature of each planet lives, the sides rise above

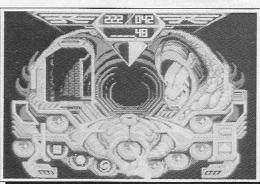
you. A super realistic flight that must be experienced to be appreciated.

Captain Blood's next greatest programming triumph is the level of intelligence at which a conversation can be held with a life form. The personality, needs and feelings are all portrayed using icons. Before long I found myself learning this simplified point and click language of pictures, and game progress quickly improved.

You could spend weeks talking to some of these characters, learning the international iconic language, and just getting to know your way around the galaxy. A SAVE option is available.

In all, an adventure of tremendous proportions, that is a sure winner in the graphics, sound and plot department. I suggest you check it out next time you hyperspace into a dealer near you.





Distributed by OziSoft (02) 211 1266 RRP Amiga \$69.95 C64 disk \$35.95 cass \$26.95

TWO INTELLIGENT WAYS TO MIND YOUR OWN BUSINESS



1. The Commodore Amiga 2000

- Low-cost entry to desk-top publishing. Advanced graphics, type and photographic reproduction.
- Multi-tasking of business packages.
 Runs up to four programs simultaneously.
- Optional XT or AT bridgeboard for MS-DOS compatibility.
- Produces sophisticated presentation graphics, reports, and overhead projection slides.

2. The New Commodore PC10 Version 111

- Just released! The newest version of Commodore's proven PC10 with 640K RAM.
- IBM PC compatibility. Runs MS-DOS business software.
- Expandable with 3 full-length expansion slots
- Built in mouse port, serial and parallel ports and colour/monochrome adaptor.
- Includes Able One integrated software and GW Basic.



KEEP UP WITH

Circus Games

by Eric Holroyd

Step right up! See the greatest show on Earth! So says the blurb on the packaging of this new game made under licence from Barnum & Bailey and Ringling Brothers, surely the most famous names in the circus world.

It's a game for one to four players and has four sections: Tightrope Walking, Trick Horse Riding, Trapeze and Tiger Training. It's all joystick controlled with the stick performing different functions in each section. For instance, in the Trick Horse Riding, moving it left and right keeps your balance on the horse and there's a balance meter to help here too. Then you can do: Handstands and Somersaults, Stand and Sit, Left and Right Spins, and Jump to left or right. Points are scored for each trick successfully performed and you lose points for overbalancing or falling off the horse.

The title screen was very good and had authentic circus music playing in the background. This deserves a special mention both for the accuracy of the music and the authentic sound. The music is the well-known march "Entry of the Gladiators" which is played here in full and it's quite a long tune too. Music always used to be played on a steam organ at the old time circus, and this programmer has faithfully reproduced the sound, so top marks for attention to detail there. Various other tunes play throughout the different scenes and contribute much to the circus atmosphere.

In Trapeze you're performing high up without a safety net and have to make a number of crosses and recrosses from one trapeze to the other before being joined by another "flyer" to perform joint tricks. Again, I liked the joystick controls which were very effective and simple to learn and points are scored for tricks performed and properly completed.



rope event where you're control-

ling a shapely young woman. You have two views of the action, one the normal view and the other a plan view, so that you can see exactly what she's doing with her balance pole. If she falls off she climbs back up the ladder with a most attractive wiggle, reminiscent of the Queen in *Battle Chess* on the Amiga, then starts again.

It's not easy to master the Tightrope section, but once you've got the balancing idea you can rack up points for tricks such as Cartwheels, Somersaults and Handstands done on the High Wire. The trick here is to press the firebutton immediately on landing back on the wire to establish balance. Falling off the Tightrope loses points of course.

If ever you've fancied yourself as an animal trainer now's your big chance, and with no danger to life or limb either! Three huge Bengal tigers are parading round a large cage with you inside it.

You're armed with a whip and a chair, the whip's operated by the firebutton and the chair by the space bar. The idea is to use the whip gently (!!) to get the tigers to go where you want them, then get them to jump onto a podium, through a flaming hoop, then go through a tube,

ing nasty and devouring you. Each tiger has a "threat bar" at the bottom of the screen, if it's white you're OK, if it goes red you'd better look out

attack.

Incidentally I've always wondered why it is that jungle animals are deadly afraid of chairs? Is it some subconscious throwback to the days of the great white hunters I wonder? Anyhow, if you "threaten" one of the Bengals by hitting him on the head (rather than anywhere on the body) with the whip he'll attack without warning and you've lost another life. Failure to complete the course within the allotted two minutes (and there's an on screen timer) incurs a points penalty just to keep you on your toes and it has the effect of keeping the interest up

and have your chair ready to ward off an

This is one of the best C-64 games I've seen in recent months. It's a new idea, few and far between in computer games nowadays, with a lot to offer and is definitely worth a look.

Review copy courtesy of Questor (02) 662 7944 RRP Amiga \$59.95 C64 disk \$39.95 cass \$29.95





Finally having *Bomb Jack* on the Amiga is as revolutionary as getting *Big Bird* out of retirement to host the Countdown awards. Sensational!

Our little blue, bug-eyed buddy is here again, off the streets and pulsating new techno life into our on screen visions. We are happy now to get the one in a million chance to review this new release and see how it measures up to the Commodore version of eons ago.

Bomb Jack, the little pyrotechnic maniac of the Far East, comes in to you live with all his usual smug antics. From the opening screen set against the dusty, mustard sands of Egypt, crazy Bomb Jack is out to collect his cherry bombs faster than an Oklahoma farm boy rushing to get his chores done before a big Friday night date with Miss Cheegoocheegoo Swamp '89.

As always, this number one selling game from the land that brought you Henry the Eighth and acid breath, is compelling playing material. From the opening shot out there in the desert interiors of Egypt you, the sweaty palmed player on the kitchen chair, have that frenetic chance to swirl and whirl your bug eyed friend around the screen, collecting the fused and defused bombs and tally up a staggering amount of points.

This factor is probably one of the

game's more endearing features. The ability to clock up an impressive amount of points and with not too much difficulty either. All it takes is a learning process of agility and dexterity. I found that if you have one of those suction cupped joysticks in front of you and you get to a hairy sequence in the game where there are a dozen different kinds of assorted nasties floating and gliding every which way on screen - then sometimes you tend to rip the joystick right off the desk and end up dying anyway from losing control.

The game, moving on into Greece and the Colossus of Rhodes and/or Parthenon is a just for the hell of it location shot for Bomb Jack to continue his odyssey of grenade polarization. But such locations, I have found, are quite pleasing as a chance to devoid oneself from the dark, velvet voids of some outer space back lot north of Jupiter.

Then, as progression increases with the kind of skill you find yourself amply provided with as the game continues, you move finally to a large castle estate probably somewhere in the Black Forest of Germany.

Look out for and relish the moments when you can swallow the not so bitter pills that enable your friend and mine, Bomb Jack to dart about and gobble up the nasties while they are temporarily indisposed in a period of suspended animation.

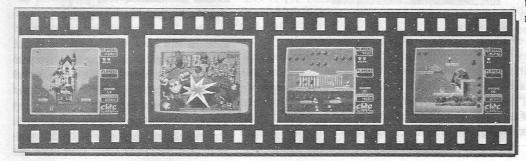
A couple of criticisms may have to deal with the actual stealth of Bomb Jack. It is true that you have a very good ability to manoeuvre him upwards with reasonable manipulative movement, but I, and others, feel that he should have been endowed with a little more bounce instead of floating. Perhaps even if it meant that the nasties themselves could be speeded up as well, it would lend itself to a totally riveting game.

But we are grateful for the chance to Amigaize this beloved game and enjoy the excellent graphics that have resulted from its adaptation to this machine.

The music is pretty much a non entity. Some featureless tune from the cobwebbed cracks and corner of a travelling carnival. But if you came here for music, turn the radio on. If you came here for scrolling screens and razzamatazz, flashing strobe aliens then reload to some other title. But if you came for good time fun and pleasure then look no further than the new Amiga release of Bomb Jack.

If you do want to stock your games library with a beaut new game, then mate, you will be happy about the satisfying diversion a nice little game like

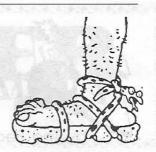
this one can give you, and your nice little kids.



Review copy courtesy of Questor (02) 662 7944 RRP Amiga \$44.95

CAYEMAN UGH-LYMPICS

by Ted Beck



Is it true? Yes. From out of the latest cave sketch discoveries today's archaeologists have now uncovered tangible evidence of proof that there were real and organized exhibitions of sports in controlled matches.

How good, how enthralling were these eons old quests for glory? Would they have satisfied the blood lust tastes of modern man? In fact, is it even possible that we could learn from such barbaric contests?

Long before Athens and the more conservative of sporting events in the ancient days of our era, long before steroids and caffeine pills, long before ten camera telecasts and peanut sellers, the dudes from the cave drawings were actually out there contesting each other with the most daring and impossibly enduring methods of comparison ever envisaged by this planet's inhabitants.

Let us take a closer look at the games and find out about the people who put

the "ugh" in ugh-lympics. We will look at six events: Mate Toss, Clubbing, Dino Vault, Dinosaur Race, Firemaking and Sabertooth Tiger Racing.

First of all, included in the game package is an excerpt from a local cave person newspaper dated 35,000 B.C. Perusing the articles carefully, we find that human interest stories and current affairs are pretty well similar with the broadcasts we would find today.

One headline reads: "Threat of Terrorist Gorillas at this Year's Games

Possible motives are "simple demands for bananas to the release of other gorillas being held at local zoos" and "the gorilla leader's love of one of the athletes." The element of tension and danger continues into the game.

An obituaries column tells of the timely demise of one Blog Blog, the oldest known caveman in existence who died at the incredible age of 38. In an interview just before his death, when asked how he managed to live so long, Blog replied: "Not die."

There are personal columns. help wanted columns and the like, providing a fascinating insight to the world of yestereon. It also lends itself to creating a vested interest in the game you just shelled out big bucks for.

Then it comes time to choose your athlete. I played against the computer the first couple of times. The computer, even though it may win, is only there as a personal pacer and once you have at least completed an event, you will be able to be registered in the score tally as a winner and possibly even graduate to the "Cave of Fame."

To pick an athlete, the barbaric overtones of the day are present here for you, using the fire button you bash the picture of the cave person of your choice. You

> will then receive the Neanderthal's biography and his or her strengths in various events.

When it comes to picking the

cave person athletes, remember before going into each individual event to pick an opponent that specializes or is outstanding in a particular field. For instance, when it comes to the Mate Toss, chose Thag who has a history of domestic violence, or grudla, the big momma that reigns supreme over her wimpy hus-

band.

There are even sponsors here that you select to financially back the athletes. Dignified and respected corporations like Bashwell Clubs and NiceStink Perfumes. This, though, has no bearing on the performance of your athlete. I think they just threw this option in as kind of electronic sausage filler.

My advice is to practice every event first. Particularly if you are playing the game alone. If you start into an event and you are playing against the computer you usually only get one or two rounds and then that event is over and you automatically load to the next phase of the game. If you find yourself at an event you particularly enjoy, then close out to the practice session again and this will enable you to play the event for as long as you like. And don't worry, you will have many favourites.

Mate Toss

One of the more intimate of sporting achievements. The ability here to grab your matrimonial partner by the hair and toss him or her against a wall or a rock ledge. The history recorded in the booklet tells about how this particular event has brought about many a courtship between a man and a woman meeting up and having a good whomp at each other. Women have no problems excelling in the sport, as one enthusiastic lady proponent declared, "Me just like him go splat!"

The Mate Toss, not unlike the more modern but less streamlined shot-put event, takes place in a circle. Here you must hold the joystick button down and move the lever in a circular, counter clockwise direction. When you are at top swiveling speed you release the joystick button and toss your mate as hard as possible over the circle. Once your mate has

landed, the distance will be pronounced on screen and you will rank in the tally accordingly.

Sabre Race

As the old saying says on variously placed bathroom walls, "The race goes not to the swiftest, but those that can avoid being eaten." Here we have a race with the biggest twist this side of the corkscrew rollercoaster.

You and your opponent are set up on the field ready to begin a long distance dash over a length of field. It is one this to win the race against a fellow cave dwelling performer. But imagine now, the fact that a vicious sabre toothed tiger is loosed onto the field behind you! You can run, but you better run fast! That saber tooth tiger is one hungry feline and if you do not get the joystick motions down pat you soon become a side order on a fast food menu.

You move the joystick back and forth rapidly from left to right to increase your speed. But watch out, even though you may at times be in front, the guy behind you can pull your loin cloth and drag you backwards, even whirling you around and tossing you to the sabre tooth tiger! This is the Ugh-lympics, remember? And sometimes things can get pretty ugh-ly.

Fire Making

Now this is brilliant and definitely one of my very favourites. It is one of the funniest sequences in a game that I have ever seen on screen. It is a wonderful piece of work.

Here, as the game's creators call it "an evolutionary milestone" in the prehistoric development of man, was the first great step in civilization. To create fire, for heat and protection. Now, such rudimentary exercises have been captured onto disk and included in the game.

Your opponent is sitting there staring at you as he sits with the other competitor outside the entrance to a big, dark cave. In front of you is a small pile of twigs and bark. You and your opponent are
equipped
with the
only instrument allowed
in this
course, two
sticks. Moving the joystick rapidly,
(and in this

game, everything depends on rapid movements of the joystick lever) you start your caveman rubbing his sticks together along with the competitor. Below the screen is a green bar that fills as you quicken and prolong the pace of the rubbing motion. It eventually changes to red and sparks start to form. Once a few of the sparks land on your tinder, your next job is to puff upon your pile by repeated-

ly and the aforementioned rapidly, pulling your joystick back. When you see smoke, push the lever upwards which gives you a deep breath, then drag it back towards you and this will exhale the needed breath on the tinder pile.

Remember again, the brutality that existed in these days. If you find that your opponent is getting too far ahead of you toward igniting the tinder pile you can deftly impair his progress by whacking his skull with one of your sticks. Of course, the other guy also has that ability, and I found that, although quite amusing, the time it takes to turn and thwack your opponent may be all that

Clicked on Games Clicked on Games Clicked on Games

he needs to furiously finish off his frictioned movements, take that one deep breath and ignite his fire to win the game!

The sound effects for this sequence are very good, especially the simulation of the inhaling and exhaling processes. The more you push or pull back on the lever the longer or shorter the gasp of air.

It is cleverly done you will enjoy it.



The goal of this event is to force the other player off the clubbing platform or beat him senseless. There are two parts to this event: the Intimidation Phase and the Clubbing Phase.

During the Intimidation Phase you have the responsibility to move that levering implement in the box in front of

Commodore computer PCB exchange service

- ◆ Same day certified mail despatch ◆
 - ◆ Three months warranty cover ◆
- ◆ Re-assembly instructions included ◆

Commodore Vic 20, C16, Plus 4

\$49

Commodore C64, 64C

\$89

- Simply remove your faulty board from its casing
- Your board must be complete and in serviceable condition.
- Forward your securely packed board together with your remittance to:

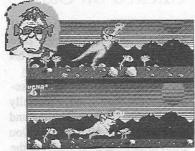


Whites Hill Shopping Village Samuel Street Camp Hill, QLD, 4152 Phone (07) 395 2211

BANKCARD/MASTERCARD/CHEQUE/POSTAL	I ORDER	FR
-----------------------------------	---------	----

NAME				
ADDRESS	2 02 2000	Manufod.	line town spelit line	
PHONE	one vitie	38, 18801	PC	
PAY BY CHEQUE	B/C	M/C	Postal Order	
CARD NO	old s ai		ing of their out	
EXPIRY DATE	all to all	hin sti ai	tse Joan to data w	
SIGNATURE			DATE	





you very furiously in all kinds of random directions. This makes your caveman flail around wildly. If you can intimidate your opponent you will have a decisive

edge when the clubbing begins.

I know this sounds quite violent but, remember, to a cave person it is more like social interaction. So, do not feel too incriminated when you give the guy next to you a mighty thwallock with your drum stick, this is allowed in the rules of the International Ugh-lympic Committee.

Your job is to bash, and we do mean bash the lima beans out of the kid till you drain him of all his energy or knock him off his platform. Strength is displayed on the bar graphs above each athlete. Keep a careful eye on these to monitor your strength. The beatings can be deceiving. I found that sometimes it would look like I was giving my cavie counterpart a terrific wallop on his cranium but at the same time he was countering me with a series of swift, well placed blows to my knees and ankles. Stars appear and you fall on your butt from exhaustion.

What is really cool are the various underhanded tactics you may employ in distracting your opponent, For instance, you can easily fake the other guy out by pressing the fire button continuously which makes your guy suddenly point to some place over and behind the oppose's head. He will look around stupidly and you get a great opportunity to crack him a beauty on the old skull bone.

The field in this sequence is a big, grey slab of rock set in the middle of the screen where you have both contestants

standing off side one another coming grunting and grumbling with brandished clubs. You give your joystick lever a good workout on this one.

Dino Race

Could it have happened? Dinosaur races across the Mohabi? Sure, why the heck not. Actually, this phase of the game has some of the best colour graphics and lay-out in the package. You are there, astride some gangly looking beast with just a halter around its protruding neck and the object is to ride that sucker like the wind.

Actually, this part of the game takes a great deal of practice to perfect the sometimes quite temperamental decisions of the controls. It is a treacherous course to the finish line, marked by a cattle skull. There are methods of spurring your reptilian stead onwards, by kicking him with your heels continuously to propel him in the forward direction, or more effectively, whipping that big old club of yours out from your holster and bopping big Dino a good one on his hairline. This is known in the Ugh-lympics as a turbo tap. And if it works, your dinosaur will take off like a racehorse and clear all obstacles without your guidance. Once he slows down you will have to resume the spurring. Be careful of this, sometimes it happens before you know it and the other guy is a couple of lengths ahead.

Jumping is a tricky part. Get your coordination right, here, so that you can jump the many hazards that are quite slowing if your concentration and stealth are at a low ebb.

The scrolling in this feature runs from left to right and the guys at Electronic Arts have excelled themselves once again with the visuals. The landscape is great with cacti, boulders, trees and assorted prehistoric desert spreads. If you are ever going to ride a dinosaur even just once in your lifetime - you might as well do it in the proper atmosphere of the Cave Ugh-lympics.

Dino Vault

First you raced them - now you have to jump the mutated lizards!

Here you are in a splendid location beside the seaside. Everybody has gathered for this final compelling event. The big monster awaits! You stand there, waiting for the height of the dinosaur's neck to be determined, then back up to prepare yourself for the running leap to the gorge and the dinosaur on the other side. Timing, pace and eye contact is a must! Here, special sound effects of feet running are there to tempo your dash. You must rhythmically move your joystick lever backwards and forwards to the sound of the feet to accurately gauge the distance for the required jump. If you don't get it right - it's munch city by the big guy.

And so it continues, one of the most involved sporting computer games of 1989. It is a wonderful innovation as far as themes go, and I highly recommend you checking it out.

However, if you are into games that you want to have around for a long time and buy as a total challenge, with almost unreachable scores and a myriad frames of varying degrees of challenge, Ughlympics may be a little immature for your tastes. It is a terrific game for more than one player, but in the thinking times of solitude, you are going to want more action and strategy than Cave Ughlympics can provide.



Review copy courtesy of ECP (075) 96 3488 RRP C64 disk \$29.13

licked on Games

Neuromancer



In the style of Hacker, Richard Sylsby examines the ultimate in computer adventures.

Awakening to the stark reality of the sunrise, you raise your head from the bowl of spaghetti that had served as a resting place to recover from your drunken stupor.

You wipe the Bolognese sauce from your eyes, squinting at the sudden flood of sunlight announcing to all those who can raise an eyelid the presence of a new day.

It is some time in the year 2058. Your thoughts are directed at the true meaning of life. Your life in particular. You have come to the realization that it is time to sober up, and straighten out a few things that have become elongated throughout the stream of time.

Your real world location is Chiba City, by Tokyo Bay in the Kanto District of South Central Honshu, Japan. At one end of the city is the towering concrete hologram of Fuji Electric, dominating the sky over the high-tech zone. At the other end is the Chiba Spaceport, gateway to the orbital colonies of Freeside and Zion Clusters, if you can get through customs, that is!

This is the situation you find yourself in Neuromancer, the latest role playing game from Interplay Productions.

You have come to the realization that you haven't seen many of your friends lately. You've heard rumours that several cyberspace cowboys have disappeared. You suspect that the answer lies in cyberspace, but you've fallen on hard times. But now it's time to act. The fate of your remaining friends, and yourself, depends on your successful solution of this bizarre mystery.

You'll start the game by manoeuvring your character through the "Real World"

parlours, though. Information is power and you don't have much when you start.

When you want to converse with a local of Chiba City you have to click your character into "Talk Mode". You carry on conversations with other characters through the use of "Word balloons". Word balloons allow you to choose among several responses or questions

that are appropriate to the situation. But choose your words carefully. Through dialogue, you can make friends or enemies.

Some people can be helpful, going so far as to give you things you need. Others can be downright unfriendly, keeping vital information from you if you say the wrong things.

An important note when taking part in Neuromancer is the need for knowledge in the form of skill chips. Skills in the form of "skill chips" are available for purchase in Chiba City, if you have the

areas of Chiba City. In the Real World money to afford them. Skill chips are interaction with the citizens of Chiba implanted directly into the brain jack on isimportant. Be especially careful when the side of the skull of your character. extracting information from the girls This gives you instant access to that parwho give their services to the massage ticular knowledge. Skill chips cover a wide range of abilities, from foreign languages to high-tech cyberspace skills. There is even a Cryptology chip which enables you to analyse passwords and decode them.

> The Real World offers another important source of information. This is in the form of PAX or Public Access Booth. These are inconveniently located around



SOFTWARE & ACCESSORIES FOR

commodore 64/128



MIGA JATARI'ST

COMPLETE RANGE OF



We also distribute a full range of paper, ribbons, blank disks, joysticks, covers, printer stands, disk boxes, cables and air freighted copies of overseas magazines.

PH: 02-457-8118 FAX: 02-457-8739

icked on Games icked on Games ed on Games

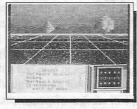
the city, and help you to stay current with the rest of the world. The PAX booths offer such services as a news paper called the Night City News, a public Bulletin Board Service for personal messages along with friendly banking services.

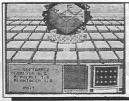
The best way to get started in your quest is to locate the basic hardware your deck - and the software needed to connect you with the public computer network. You'll find a basic deck with Comlink software waiting for you right where you left it - whereever that is . . .

With your equipment you can hook up into computer systems or bases all over the world. This is all in the search









for knowledge about what has been happening. But remember, nowadays hacking can get you into trouble. A hundred years from now, it can get you killed.

As a cowboy you can tap your consciousness into a database. This electronic universe, known as Cyberspace, ties together all other computer networks. Hidden from the common citizen who is limited to accessing bases through the Comlink system, the Cyberspace grid represents information in its purest form.

Hooking into a new database, the television grey world of Chiba City is transformed into the technicolor world of Cyberspace. Visually, cyberspace is a three dimensional representation of all the bases which look like geometric shapes.

Cyberspace is just an image generated in your brain by your cyberspace deck. Without the deck, cyberspace would just be a complex sea of information, that humans would not be able to understand. But you're not going in alone; you've got 30 megs on line, three viruses, which es. The screen is anything but sparse of can be used to defeat computer security in colour. The game is also set to a fully diover 40 databases, six icebreakers and a ROM constructor riding shotgun.

defenses in cyberspace, so it's not just as easy as waltzing up to the front door, ringing the door bell and asking the security guard for a look around. Breaking into the database guarantees a confrontation with glittering ICE and various Artificial Intelligence.

ICE is Intrusion Countermeasure Electronics, which acts as an independent, semi-intelligent barrier, keeping cowboys like you from getting inside the base.

AI or Artificial Intelligence is a program where they attempted quite successfully to model human intelligence. Now Als have developed into individual entities capable of being granted citizenship by certain countries. AIs are fully capable of defending themselves, so when con-

templating going into battle with them I suggest that you should consider careful-

An AI attack is a unique experience. This type of battle is often referred to as "flatlining". The AI feeds a neural shock into the victim's brain, keeping the cowboy's brain dead long enough for his physical body to stop functioning.

Despite these grim warnings I believe you should have a ball playing this cyberpunk role-playing adventure. The game will keep you sitting on the edge of your seat for many spine tingling hours.

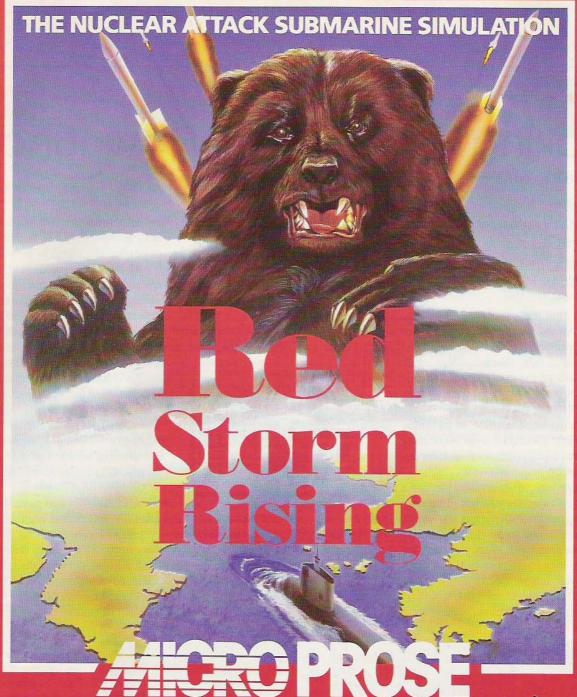
Neuromancer the game is actually taken from the book of the same name by William Gibson, with news in the pipeline that it is soon to become a major motion picture.

I rate Neuromancer as one of the best adventure games that I have seen, although the action doesn't take place quite as quickly as it would in a shoot em' up. But it still does have appeal to the sensgitized original soundtrack by Devo. They have taken their time with this to Each computer system has different create one of the new breed of adventure games, which truly has every base cov-

> Video Games and Computer Entertainment magazine must have had similar feeling to my own when it nominated Neuromancer the Best Computer Adven-

So if you have a love for adventure, intrigue, intellect, and acquired skill that you put into motion, hacking your way through the future - then Neuromancer is the game that you just have to get so as to be up with the latest and greatest in computer adventure games.

> Our review copy came from Ozi Soft (02) 211 1266 RRP C64 \$35.95





Exclusive Distributorship by

THE CHALLENGE CONTINUES
TELEPHONE (02) 662 7944

Making a "Splash" in Downunder

by Andrew Farrell

Australia's software industry has seen numerous development teams come and go. The latest software house to launch forward is a Perth based operation. Andrew Farrell interviewed the man behind the name.

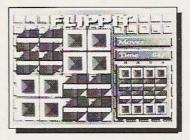
Another strategy program that sounded like a remake of a public domain downer. Then I met the guy behind the concept, Alex Aguero, and sat down and played the program. I love it.

Bouncing into the office, in traditional Perth Entrepreneurial style, Alex and I took a seat on the balcony to discuss developments.

To start with, this operation has had a good sized injection of cash. The way Alex saw things, if the setup was worth setting up, it had to be done properly. The photo says it all. What you can't see are the hidden megabytes of RAM, hard disk drives and metres of cabling that make all the computers work together. Every programmer's dream. Transputers

are on the way.

Aralia, now called Splash, started with bigger projects than the likes of



ppit. In case you missed the review(ACR January issue), Flippit was the first program to roll off the Splash production line. More are promised. But these are only the start, the cash flow, to get the bigger projects off the ground.

Alex has the energy and enthusiasm Flippit, of course!

to make it happen. Couple his business head with the guys he's assembled and we can expect big things in the near future.

All involved are dedicated, loyal hackers and designers. Some are out of university, others dropped out of high-paying jobs, a few walked in off the street. All share the drive and determination to work together and make it live. They sleep, eat and breath computers.

An interesting side to this story is the number of Atari fanatics amongst the team that have become Amiga converts. There's a few C64ers in there as well, ready to cram into 64K whatever idea hits the drawing board. Talking nothing but binary, thinking in Assembler, dreaming in C.

Alex demonstrated game designer programs, graphics and routines that are to be part of future creations. It all looked very impressive. I wish them every success. Australia has got the talent. At last someone is making a go of putting it to work. How can we all help? By buying a Elippit of course!



The Splash team of programmers:
Front row (seated):
Stephen Zardonowski (Amiga programmer),
Alex Aguero (leader),
Laurie Smithdale, in hat (Amiga and C64, Jocelyn Palacios (computer graphics), Derek Giles (Macintosh programmer),
Greg Colley (Atari and Amiga).
Back row (standing): Mark Martin (Amstrad), Dave

Martin (Amstrad), Dave Musgrave (IBM), Warren Pynt (Amstrad), Mark Spronck (Amiga and Atari)

Word processing on the C-128 (Part 2)

Last month Frank Paterson explained the concepts of wordprocessing. Now he gets down to the nitty gritty - picking a C128 power plant for your own word crunching needs.

HIS MONTH we look at ten word processors, give a summary of each and tabulate their features for easy reference.

You may wish to refer to last month's article from time to time.

Fontmaster 128

Fontmaster is a unique word processor for the 128 in its native mode. It is the only one, other than those that run under GEOS, to provide a variety of fonts (over 50!) and the ability to include graphics in your text. The fonts are provided on the program disk but the graphics must come from your own Print Shop or Doodle library and be converted via one of the utility programs supplied. Fonts and character sets can be edited or created with other utilities, also supplied.

In addition to fonts, the program also utilises the double height feature found on some printers, so you can print very pleasing headlines or titles on your documents in both plain characters and fonts.

Graphics can be placed anywhere in your document and *Fontmaster* will arrange the text around them. It will also print in up to four columns and can reverse the direction of the screen for use with foreign languages which read from right to left. Appropriate fonts are supplied.

There is a "Screen Protector" built in to the program. If no action occurs at the keyboard for some time, *Fontmaster* will cycle the display through all the 128's colours, preventing the screen from

having an image burnt into it. At the first subsequent keystroke, normal colours are restored automatically.

Other features include standard enhancement of fonts (ie, italic, underline, super and subscripts, etc), 100,000 word spell checker, use of RAM expansion, macro instructions, decimal or Roman page numbers, user adjustable proportional spacing, print a marked block of text and many more.

Fontmaster 128 was reviewed by Eric Holroyd in the October '88 issue of ACR. Review copy from Dastron Pty Ltd, phone (02) 712 3124. RRP \$89.95.

Better Working Word Pro 128

Word Pro 128 is an upgrade of the original program well known in C-64 circles.

One of its nicest features is its software driven proportional print. Though built-in proportional print is becoming the norm in most dot-matrix printers these days, older models don't have it, and there are plenty of those around - including the one on my desk! Word Pro makes it available to everyone.

Data can be stored on disk in three ways; one suitable for Punter BBS bulletin board systems, one in conventional Commodore ASCII SEQuential files and the last in true ASCII SEQ files, making transport of data between programs simple and easy.

There are two independent text areas available, as in *Pocket Writer* and *Superscript*, as well as provision for ten user-definable characters and macro instructions. Macros allow the user to assign a command or series of commands to a single key, or perhaps two or three keys. Here, the macro feature can be used to de-

fine text to be entered, rather than commands to be executed. If you have to repeatedly type a long phrase, the macro facility relieves tedium and improves your speed.

There are two methods of re-starting Word Pro, should you ever crash it. One preserves your text and the other, which saves only on re-loading time, doesn't. I can't think how a word processor could crash unless there was a programming problem, power spike or something like that, but in any case, the facility is there if you need it.

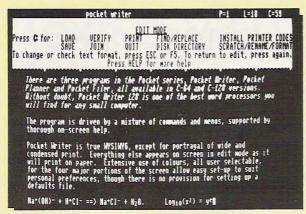
Two black marks were recorded. First, the manual. It seemed to be written by the programmer: if it wasn't, it doesn't matter, because too much prior knowledge was assumed. Secondly, if you wanted to define a custom printer driver for a printer not covered by the drivers supplied, for five dollars you could obtain an additional disk containing a printer-driver generator. From the States. Great!!

Reviewed by Eric Holroyd in January 1989 ACR. Review copy from Pactronics (02) 407 0261, RRP \$89.00.

Fleet System 4

As its name implies, Fleet System 4 is not just a word processor. It is a productivity package in which the writing component is the word processor, a 90,000 word dictionary for spell checking, and a Thesaurus. Also included is a memory-based database program called Fleet Filer. It is very fast, being memory-based, and operates hand-in-hand with the word processor for mail-merges, etc.

The spell checker is fast - 45 seconds to check a 10 page document, while the Thesaurus almost instantly gives lists of synonyms and antonyms for a particular word.



There are two text areas, each independent of the other, extensive and well organised on-screen help, and support for up to four disk drives as well as a RAM drive. Document files are stored as USR files on the disk, but there is an option to store and read them in standard Commodore SEQuential format, for easy transport to and from other programs.

The help screens are excellent and designed to eliminate the need to have a quick reference card with you as you work; however if you need the written word, the manual is of similar high standard - well laid out, readable and informative.

Reviewed in the June '88 issue of ACR by Eric Holroyd. Available in C-64 and C-128 versions. Review copy cmae from Computermate Products, Sydney. Phone (02) 457 8118. RRP \$89 for the 128 version (System 4) and \$69 for the 64 version (System 2+).

Pocket Writer 128

There are three programs in the Pocket series, *Pocket Writer*, *Pocket Planner* and *Pocket Filer*, all available in C-64 and C-128 versions. Without doubt, *Pocket Writer 128* is one of the best word processors you will find for any small computer.

The program is driven by a mixture of commands and menus, supported by thorough on-screen help.

Help is usually a two-step process. The first level is a menu. If you still don't know what to do, press HELP again and a help file will be read from the

program disk. For example, if you want help while you're in the File Management menu, press HELP and up comes a screen full of file management information. If you're in the Text Enhancement menu and you ask for help, the help you get relates to text enhancement only. You don't have to scroll through a pile of other topics to find the one you're after

you are served only relevant info. A model for others to follow!

Pocket Writer is true WYSIWYG, except for portrayal of wide and condensed print. Everything else appears on screen in edit mode as it will print on paper. Extensive use of colours, all user selectable, for the four major portions of the screen allow easy set-up to suit personal preferences, though there is no provision for setting up a defaults file.

The program stores its files in program (PRG) form on the disk. However, there are facilities for converting text in memory to SEQuential format and back to PRG, and also for loading sequential and ASCII files. Both facilities assist import/export of documents to and from other programs. You can also print to disk, which stores a true ASCII file on the disk in Commodore SEQuential format - this sets up formatted data ready for transmission by modem.

There is a full set of formatting, text enhancement and cursor controls, though there is no "delete word" command. Also, the "delete from cursor" function often takes a few words from before the cursor as well.

The series 2 versions of Pocket software all use RAM expansion if it is available.

Review copy from Questor (02) 62 7944.

Superscript 128

Superscript. Ah, how do I love thee? Let me count the ways!

You can probably tell already

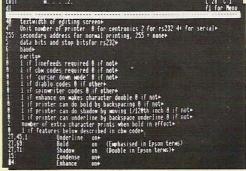
that I like this one. It's been around for a while, it's *EasyScript's* big brother and it's good. *SuperScript* has been my word processor of choice for two years now, and though I've looked at others and been impressed, I keep coming back to it.

Superscript is a post-formatting, menu-driven word processor which lacks only a few top-of-the-line features. It cannot handle columns, it makes no attempt at on-screen text enhancement, it's not as flexible as it could be in handling two drive units (ie, 8 and 9), and it lacks easy access to user definable characters they are accessible only by modifying the printer driver, not direct from the editing screen, a la EasyScript.

On the plus side, the excellent menu system is enhanced by a parallel command system which greatly increases speed. In addition to that, every alphanumeric key on the keyboard can be programmed (most of them twice) to execute a SuperScript function or series of functions, so that the program can be easily customised to suit personal preferences and requirements. Commonly used phrases can also be assigned to keys, to save typing. The calculator feature, while not being graphically presented as in WordWriter, is so powerful that you can set up what amounts to a minispreadsheet with automatic horizontal and vertical totals.

SuperScript can co-reside in memory with SuperBase, so that mail-merges can be done direct from a database address file instead of via a merge list.

There are two files which tailor the program for you. The first is the defaults



file, which contains your customised key definitions, while the second is the printer definition which contains all the codes necessary to make your printer do its thing. The printer definition is linked to the defaults file so both are automatically activated when you load the program. Either may be loaded as a single document and edited, so it's easy to make changes which can then be implemented right away and/or stored on disk for future use.

There are two text areas and you can swap freely between the two. I use the second, smaller area to store and display my outline and as a note pad on which to record ideas while I write. It is also handy when you want to re-define a character, which can only be done by editing the printer definition in a work area and reinstalling it.

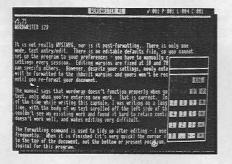
An excellent program with an excellent manual.

Review copy from OziSoft (02) 211 1266, RRP \$149.95.

Wordwriter 128

Wordwriter 128 has some unusual approaches in its design.

It is not really WYSIWYG, nor is it post-formatting. There is only one mode, text entry/edit. There is no editable defaults file, so you cannot set up the program to your preferences - you have to manually change settings every session. Editing margins are fixed at 10 and 70, though you can specify others. However, despite your settings, newly entered text will be formatted to the inbuilt margins and yours won't be recognised until you re-format your document.



The manual says that wordwrap done on a lesser program. doesn't function properly when you're editing text, only when you're entering new work. That is correct. In fact, most of the time while writing this capsule, I was writing on a long single line, with the body of my text scrolled off the left side of the screen. I couldn't see my existing work and found it hard to retain continuity. It doesn't work well, and makes editing very difficult.

The formatting command is used to tidy up after editing - I used it frequently. When it is finished (it's very quick) the cursor is returned to the top of the document, not the bottom or present position, as would be logical for this pro-

There is no "Go to end of text" command. To do it, you have to go to the bottom of the document (first word on the last line) and then go to the right of the line. Apart from that limitation, there is a comprehensive array of cursor controls, insert and delete functions. Once you get your editing sorted out, on-screen display of text enhancements is pleasing.

The program is basically menudriven, with commonly used features command driven as well, for speed. Ten printer features can be accessed directly from the menus, and there is a convenient though somewhat unusually implemented facility for sending any other escape code or command to the printer.

RRP \$99.95.

WordStar

Part of my reason for upgrading to a C-128 from the trusty 64 was its CPM capability which supports many "industry standard" programs not normally available to Commodore users.

One of these is WordStar which I have used extensively in writing and periodically editing a technical manual for The Boss. The layout is formal, with lots of paragraphing, multiple indenting, outdenting, headers, footers, columns, tables of contents, etc. It is in a continual process of review and amendment which I don't believe could have been

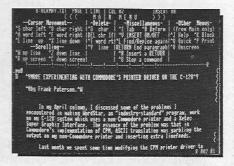
Without doubt, WordStar is the biggest, best and most comprehensive word processor you're likely to use on a 128, and it's impossible to do it justice in a 350 word summary. What I will do instead is try to correct a few wrong impressions I have heard about this program from people who have used improperly installed early versions.

Early versions only gave limited control over dot-matrix printers because in the days when those versions were written, dot-matrix printers were, well, crude. The highest, and current CPM version, WordStar Professional Release 4, allows full control over the current crop of high quality dot-matrix printers.

WordStar has to be installed to your computer. Under CPM the C-128 emulates an ADM 31 terminal, but Commodore have included additional enhancements which should be taken advantage of. This can only be done if you properly install WordStar and use the installation manual. The printer must be correctly installed at the same time.

CPM has been upgraded by Commodore, and in addition to the latest CPM+.SYS file, there are a number of configuration utilities which should be investigated and used. With them, you can configure a special CPM+.SYS system file for WordStar so you can take full advantage of the features of both the computer and the program.

If you own a 1750 RAM expander WordStar really shines because the overlays, which are used extensively, are called from the RAM disk rather than the floppy. Fantastic!



(continued on page 32)



IT'S ENOUGH TO BLOW THE MIND OF ANY COMPUTER ENTHUSIAST!

The AVTEK EXPLORER package contains a modem for the IBM PC and Compatibles or Commodore 64 and Commodore 128, Communications Software, VIATEL and Microtex 666 subscription for one year.

IPUTER OPEN UP THE EXCITING ATIONS AND ESSENTIAL NEXT



the latest news on the computer industry, as well as advice from the experts. Microtex 666 also offers you entertainment, bargain shopping and a wealth of other services.

MODEM

AVTEK 3+12 MODEM FOR THE 1BM PC AND COMPATIBLES

OR

A MODEM FOR THE COMMODORE 64 AND 128

These modems offer 1200/75 bps

suitable for VIATEL and similar services, etc., and have telesoftware download capability, PLUS 300 bps full-duplex asynchronous communications to suit Electronic Mail, Bulletin Board Services, etc. Simple-to-use moderns that are ideal for the first-time communicator.

COMMUNICATIONS SOFTWARE

The software has been designed to run on IBM PC XT, AT and the Commodore 64 and 128.

The AVTEK EXPLORER communications package we are offering gives you everything you need to access VIATEL and Microtex 666.

VIATEL SUBSCRIPTION FOR ONE YEAR

Imagine from the comfort of your own home, being able to bet on the races, bank, pay bills, shop, play games, book holidays, purchase lottery tickets, send electronic mail, meet a multitude of people and much more! Well it's all possible through VIATEL. VIATEL, Telecom Australia's national videotex service is available to anybody with a telephone connection, a computer and a modem. The modem will simply and quickly connect your computer to the telephone line.

VIATEL is simple to use and requires no special knowledge of computers or related terminology.

MICROTEX 666 SUBSCRIPTION FOR ONE YEAR

Computer Publications Pty Ltd's popular Microtex 666 (to be found only on VIATEL), offers a comprehensive service for PC users. Microtex 666 connects you and your computer to a nation-wide network of thousands of computer users. Microtex 666 lets you communicate with these users AND gives you MASSES of computer programs straight down the telephone line onto your PC. You can "download" software as often as you wish, any time of the day or night. Become an identity on the Microtex 666 bulletin boards, get



ORDER NOW Please note your AVTEK EXPLORER package will include modem, connecting cables, software, Microtex 666 membership card, VIATEL membership. Sales tax and postage and handling is included in price.

TO ORDER:

Call credit card details through to AVTEK Data Communications on 008 252 754 for same-day dispatch.

OR

Simply fill out the coupon below and send it to: AVTEK Data Communications

Freepost 16 PO Box 651 Lane Cove, NSW 2066

My choice of modem is: (please tick)
\square Modem 3 + 12 for IBM PCs & Compatibles \square Auto Dial Modem for Commodore 64 & 128 PCs
currently have a: (please tick)
☐ IBM PC/XT/Compatible ☐ IBM/AT/Compatible & require a 9 pin connector (25 pin D25 female connector)
☐ Commodore 64/128 (Commodore interface)
PLEASE PRINT CLEARLY IN BLOCK LETTERS DELIVER TO: (No P.O. Box numbers, please)
NAME
ADDRESS
POST CODE
REGISTERED TELEPHONE NUMBER
CHARGE MY CREDIT CARD ACCOUNT OR PHONE THROUGH TO (008) 252 754
□ BANKCARD □ VISA □ MASTERCARD
ACCOUNT NAME
CARD NUMBER EXPIRY DATE
SIGNATURE

The only real limitations are hardware problems that are evident on all CPM applications on the 128. They are slow screen refresh and, if you haven't got a RAM expander, relatively slow (compared to industry standards) floppy disk access. As I say, they are computer problems, not *WordStar's* and in any case are not too bad to live with.

Oh, and the price. Seven hundred dollars - yes, you read right - for outright purchase. Or, and here we get back on the tracks, \$238.00 including tax and delivery to your door, for an upgrade. At that price it's pitched at the serious user, not the occasional letter writer.

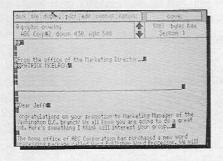
Some features? Oh, all right. Everything that the other programs have, plus automatic contents and index generation, columns, WYSIWYG, document size limited only by storage capacity, huge spellchecker, thesaurus, over 350 commands and functions, comprehensive help screens with adjustable help level, runs other programs from within itself ... the list is endless.

From Micropro International.Review copy from WordStar Australia.

GeoWrite

Much has been written in this magazine about GEOS and its applications, so *geoWrite* will need little introduction.

GeoWrite, like all other GEOS applications, is menu driven via drop-down menus and a pointer controlled by the mouse or joystick. Later versions (from 1.3 onwards) have parallel commands for some of the most commonly used features. These do add considerable convenience, especially for 1350 digital mouse users whose mice are not as precise or as



fast as mice should be. An analogue mouse (the 1351) which corrects these problems is available.

GEOS supports multiple drives of different kinds, ie 1541, 1571 and 1581 and also RAM expansion. Combine the RAM expansion with *geoWrite's* obvious strong point, full WYSIWYG capability, and it becomes a fast, powerful writing tool which is a joy to use.

In an introductory article on GEOS 128 in the July '88 issue, I made mention of a few deficiencies in version 1.3 which I thought significant. Lack of full margin control, no headers and footers or super and subscripts among other things put *geoWrite* out of the running as a program for serious writing. Happily, that's all been fixed in *geoWrite 128*, so that the program is now a viable option as a serious word processor. Harry Waterworth had a closer look in the September issue.

We both conclude that the GEOS system, in particular *geoWrite 128*, is an excellent package and worthy of your consideration.

GeoWrite 128 from Berkeley Softworks. Review copy from Computermate, ph (02) 457 8118. RRP \$119.00.

Better Working Word Publisher

Word Publisher runs under GEOS in 40 column mode. Some of its features improve on facilities found in geoWrite while others are new and innovative.

Areas of improvement are margin control, speed of text entry, provision of su per and subscripts, pagination, indentation, outdentation, headers and footer s. (As noted in the *geoWrite* capsule, *geoWrite* 128 also offers improvement in these areas.)

Word Publisher is a post formatting program, and claims benefits arising from that. Text entry is much faster, as is scrolling around the page. Fonts, enhancements and control codes for margins or the printer are marked by special symbols, as in other word processors. When display mode is selected, the result is just

like geoWrite, ie full WYSIWYG.

Text can be printed in your printer's draft mode at draft speed - useful for proofing a document. When you do this, enhancements marked on the editing screen with a special character may be marked with the same character as in the draft; you may choose to merely show the marks or to have a decode printed next to each as it occurs in the text.

Word Publisher can also print to disk and as it does so, it will translate the complex graphics and true ASCII information contained in its files to simple Commodore SEQuential file format for use in other programs.

I reviewed this program in detail for ACR, but it hasn't yet been published. I suggest you wait for the review before you go out and buy.

From Spinnaker Software. Review copy from Pactronics, tel (02) 407 0261. RRP \$69.95.

Paperclip III

Paperclip III from Batteries Included is a very powerful word processor posse ssing all the basics and most of the bells and whistles.

It is written for both the 128 and the 64. Each version is on a separate dis k, but both are included in the pack and share a common manual. *Paperclip* is a large and complex program and in both versions conserves memory by the use of overlay files.

Paperclip III is a post-formatting wordprocessor. It displays all enhanced printing on-screen except non-standard print pitches, ie other than ten characters per inch.



Word Publisher

(continued on p. 40, Comparison Table on pages 35/35)

COMPUTER DISCOUNTS (Australia) Pty Ltd

178 Pacific Highway, St Leonards 2065 P.O. Box 1437, Crows Nest 2065 Tel: (02) 436 2976 Fax: (02) 437 4919

Calling all Amiga® owners!

UNI DRIVE

3.5" External floppy disk drive for your Amiga.
3.5" Internal floppy disk drive + installation kit/A2000.

SPECIAL!!

\$239

\$199_{ea}

Limited offer (Subject to change without notice)

And remember - not only is it Aussie made - it's exported to Europe and America.

12 month warranty.

®Amiga is a registered trademark of Commodore-Amiga, Inc. TM Trademarks of Memory And Storage Technology, Inc.

MICROMEGS A500

\$249

INTERNAL 512K BYTES RAM EXPANSION UNIT WITH CLOCK HIGH TECH 1 Mb DRAMS - SMALL SIZE - LOW POWER - CMOS DESIGN

Ignite your Amiga!!!
with another
"Matchbox Peripheral"
MINIMEGS TM

2 meg RAM for A500/A1000

Minimegs for the Amiga 500 represents a new breakthrough in memory design. In a tiny external case we fit a giant two megabytes of RAM with full autoconfigure architecture plus a host of other features.

- ♦ fast RAM
- ♦ low power CMOS design
- ♦ 0Mb to 2Mb (512K increments)
- ♦ RAM tachometer
- ♦ CONFIGURE indicator
- ♦ external attachment
- ♦ small size
- ♦ affordable price

Uses high tech 1Mb DRAMS and is so small it comes in an oversized matchbox!

1/2 Meg \$531 1 Meg \$763 2 Megs \$1,227

Made in Australia!

TINY TIGERTM

SCSI Drive System for A500/A1000/A2000

The Tiny Tiger is a very cost effective SCSI interface and drive for the Amiga range of computers.

- interface and drive unit in a single case
- plugs into the Parallel Port and incorporates TRANSPARENT-TRANSFER circuits to pass through the printer port
- attached to the computer by a cable does not obstruct use of the keyboard
- half height, high performance, low power SCSI drive
- powered by external power-pack
- standard 25 pin connector on the rear of the case for additional SCSI devices

30 Megabyte \$1,095

40 Megabyte \$1,398

50 Megabyte \$1,239

80 Megabyte \$1,999 (Save \$\$) User group discounts available

Made in Australia!

3.5" Diskettes

\$23 pack of 10

Jump Disk

The original Amiga disk magazine \$19.50

TOP QUALITY

Unbeatable Price! 2400 Baud Modem Only \$325

Fully Hayes Compatible/CCITT/BELL Auto Answer/Auto Dial/Tone, Pulse 12 Month Warranty

Not Telecom Approved

Commodore 128 word processor comparison table

	Font- master 128	Fleet System 4	Pocket Writer 128	Super Script 128	Word Writer 128	Word Star 3.3v	Geo Write 1.3	Word Publisher	Paper Clip	Word- pro 128
Type 1	PFG+	PF	WG	PF G-	WG	WG-	WG+	WG+	PFG-	PF
Operation2	C	C	MC	MC	MC	C	MC3	MC3	MC	С
Help4	B 5			B5	В	15		В	-5	В
ASCII6	P7	CAP	CA	C	CAP	A8	P	CAP	CA	CA7
Printer	U	U	U	U	U10	OS11	OS	OS	U	U
Control										
CURSOR							GEOS and mouse			
CONTROLS							accelerate cursor			
Sentence Fwd/ Back	*	-	47	-	1271	-	M12	M12	-	-
ParagraphFwd/Back	7	-	- W	1948	-	7	M12	M12	- 3	-
Screen Fwd / Back		10.								
Tab back								-	-	
Vertical tabs 13	1	1	2		2			2		1
Go to Top/	T	T	T	TB	T	TB	T	T	T	T
Bottom of screen	1		11887	4	A 11				4 11 3	_
Go to Top/	156	75		10.				*14		T
Bottom of document										
Go to Line Number			-			CF.			-	
Go to Start/				S		SE		-18		
End of block							140			
Go to Start/		•					M12		•	
End of current line	D	Р		n		ED.			FD.	
Scroll text15 continuously	P	P	B	Р		EP	P	EP	EP	Р
						DESCRIPTION OF THE PARTY OF THE	GEOS and mouse	-		
EDIT COMMANDS							accelerate edit functi	ions		
Delete to left		•	•	*	•			•	•	
Delete to right	·	-	•	-	-		-	•	•	12
Delete word	-	÷	2		•			* vi	a16 block	*
Delete line					•	*		7		•
Insert line			- *	8.5	•		•			
Delete to end of line	7		15	100			87.5	-	-	
Delete to beginning	76	Te .	97	2.70	ST 1		1.54	-		*
of line						Name :				
Delete sentence	-	-	-				4 0 .0	- Via	a16 block	•
Deleteparagraph	1	1	-	7.20		*	1-0	-	-	
Delete rest of text						-	***	-		
Delete ali text	-							2	1	
Find and Replace Use wildcards in17							Later versions	Find only		587.6
Find and Replace				255	-	.3	not determined		*	-
Delete buffer 18	-	-	blocks only	v -						
CONTRACTOR OF THE PARTY OF THE			31331111							
BLOCK, AREA or RANGE Move	FUNCTION	ONS								
Сору										
Delete										
Write block to			via 2nd	via 2nd						via 2nd
disk file 19			text area	text area						text area
Change case			-	*		821 11 11 1	Name of the last o			lext area
Transfer block	N/A	*			N/A	N/A	N/A	N/A	N/A	
to 2nd text area					14/74	107.14	10/4	IVA	IMA	
Read disk file and				100	(*	. ★ 3	*			
insert at cursor										
Can block mode	YES	NO	YES	NO	NO	YES	NO	NO	YES	NO
handle columns?										
Sort columns?	NO	NO	YES	NO	NO	NO	NO	NO	YES	Not determined
CALCULATOR										
Type 20	2	DC.	DC.	DC31	G				DC.	
Auto ontry of	NI/A	RC *	RC *	RC21	G	N/A	N/A	NI/A	RC .	AL/A
Auto entry of result to text	N/A		2007	1000	1800	N/A	N/A	N/A	(5)	N/A
result to text										
TEXT LAYOUT 22										
Proportional print 23	S	P	P	P		P	S	S	P	S
Indentation	*		*	1.	*					
Outdent (margin release)	*	*	T. 100		-					

Headers &Footers Multi-line headers & footers Separate hdrs/ tirs for odd/even pages Merge file OUTPUT Print to disk Video preview Print a block 19 Print from desired page number? Print odd or even pages? Offset print? 25 Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets Graphics in text?		•			The second second			u.	pro 128
& footers Separate hdrs/ ftrs for odd/even pages Merge file OUTPUT Print to disk Video preview Print a block 19 Print from desired page number? Print odd or even pages? Odf set print? 25 Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	•	•		-		later versions			
Separate hdrs/ firs for odd/even pages Merge file OUTPUT Print to disk Video preview Print a block 19 Print from desired page number? Print odd or even pages? Offset print? 25 Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	•			-	-	not determined	-	•	•
Merge file DUTPUT Print to disk Video preview Print a block 19 Print from desired page number? Print odd or even pages? Diffset print? 25 Dodd or even offset 26 Dutput in columns?4 cols DUSE RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	•		•		•	not determined		•	•
Print to disk Video preview Print a block 19 Print from desired page number? Print odd or even pages? Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Soel! check Multiple character sets			•			separate program	•		
Print a block 19 Print from - desired page number? Print odd or even pages? - Offset print? 25 - Odd or even offset 26 Dutput in columns?4 cols - Odd print									
Video preview Print a block 19 Print from desired page number? Print odd or even pages? Print odd or even pages? Old or even offset 26 Dutput in columns?4 cols GENERAL Jse RAM expansion? Extra text areas? Programmable (eys (macros) Spell check Multiple character sets				20	•			*	
Print a block 19 Print from desired page number? Print odd or even pages? Offset print? 25 Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	•	not regd	*	2	*2 4				
Print from - desired page number? Print odd or even pages? - Offset print? 25 - Odd or even offset 26 - Output in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable eys (macros) Spell check - Multiple character sets	*	via 2nd	via 2nd						via 2nd
desired page number? Print odd or even pages? - Offset print? 25 - Odd or even offset 26 - Output in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable exeys (macros) Spell check Multiple character sets		text area	text area	66		-	-	0	
desired page number? Print odd or even pages? - Diffset print? 25 - Dodd or even offset 26 * Dutput in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable eveys (macros) Spell check * Multiple character sets *			*	from					text area
Print odd or even pages? - Offset print? 25 - Odd or even offset 26 - Output in columns?4 cols - Output in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable keys (macros) Spell check Multiple character sets		from						•	
Offset print? 25 - Odd or even offset 26 - Output in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable eys (macros) Spell check Multiple character sets -		cursor		cursor					
Odd or even offset 26 Output in columns?4 cols GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	-				•	14-1		-	•
Output in columns?4 cols - GENERAL Use RAM expansion? - Extra text areas? - Programmable exeys (macros) Spell check * Multiple character sets *	+	2.7			•	-		9	
GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets	-	in the second		-	*			2	
GENERAL Use RAM expansion? Extra text areas? Programmable keys (macros) Spell check Multiple character sets		Set	3-2	via 27	141	-	2	2 cols	
Use RAM expansion? - Extra text areas? - Programmable keys (macros) Soel! check * Multiple character sets *				blocks -					
Use RAM expansion? - Extra text areas? - Programmable keys (macros) Spell check * Multiple character sets *				-					
Extra text areas? - Programmable keys (macros) Spell check * Multiple character sets *		series 2			*28		not		
Programmable * keys (macros) Spell check * Multiple character sets *		& later			20				
Programmable * keys (macros) Spell check * Multiple character sets *		t later					determined		
keys (macros) Spell check Multiple character sets			•	-				1	
Spell check * Multiple character sets *		note 29	1.72	-	*			*	
Multiple character sets *									
		note 30		*		separate program	*		•
Graphice in toyt?	2 11	-	-	-		*		-	-
	-	-	-	-		•	•		
Linked files *			.*	•	notread				
Contents or index -				-	later versions-				
generator	-				10101 401310113	AFO			
RRP 31 \$89.95	-		\$149.95\$	200 05	see note32	see note 33	\$69.95	\$89.95	\$89.00

How to use this chart

This table lists the features of the ten word processors examined for easy comparison.

An asterisk (*) means a feature is present; a dash means it is not.

Where a feature is doubled, eg "Go to Top/ Bottom of Screen", then one or the other or both features may be available. What is available is shown by the first lefter of the listed feature(s). In this example, if only "Go to Top of screen" was available, it would be shown by "T" in the table. If both were a vailable, then the table would show "TB", etc. The following notes are provided to help explain some parts of the table:-

- 1 PF = Post Formatting, W = WYSIWYG, G = Graphics used to display enhanced text. G- = simple highlighting or colours used to display enhanced text. G+ = full graphics used to display enhanced text, fonts, pictures,
- 2 C = Command driven. M = Menu driven. M C = combination of the two.
- 3 All operations assisted by GEOS and its use of point and click
- 4 B = basic help usually lists of keystrokes. I = intelligent help se e last month's article.
- 5 Assisted by an excellent manual.
- 6 P = special proprietary files used to store text and format. May be PRG , USR or SEQ type. A = outputs or accepts true ASCII. C = outputs or accept s Commodore
- 7 Uses translator programs (supplied).
- 8 Operates under CPM which is limited to true ASCII.
- 9 U = User definable printer driver. OS = limited to

operating system requirements or specific printer driv-ers supplied by software manufacturers. 10 Only 10 features able to be modified.

- 11 Installation procedure allows customisation of print-er driver, but it is not a task for the faint-hearted.
- 12 Rapidly accessible via mouse control of cursor.
- 13 Vertical tabs are place-markers in your on-screen text. They are used in edit mode to temporarily mark your place so you can quickly return after mo ving around in your text.
- 14 Documents consist of a number of automatically generated and linked sections. You can only go to the top or bottom of the current section.
- 15 P = available in video preview mode. E = available in
- 16 You have to mark a block, then perform the function.
- 17 Most programs use a "sliding match" system which reduces or eliminates the need for wildcards.
- 18 Deleted text is stored in a buffer for recovery in
- 19 Some programs with two text areas require you to copy the block to the s econd text area, then save that as a normal document.
- 20 RC = works on rows and columns of figures in text. G = graphical repres entation of an electronic calcula-
- 21 SuperScript's calculator function is exceptionally powerful and flexible, though not graphically represented.

- 22 Basic features such as left and right margins, pagination, etc are not listed. All programs have them.
- 23 P = proportional print available only if your printer has it. S = avail able through software, whether or not your printer has it.
- 24 Control codes for text enhancement may be hidden, but otherwise the disp lay remains unchanged.
- 25 Used to shift output across the page, eg to leave room at the left for b inding.
- 26 As for 25, but used when double sided reproduction of your output is planned.
- 27 Block mode permits columns of text to be placed side by side, though editing must be done in a single col-
- 28 CPM operating system uses RAM expansion. Word-Star itself doesn't.
- 29 Has 10 programmable characters. Doesn't allow strings or commands to be assigned to a key.
- 30 Dictionary must be purchased separately. Until then, you can create your own dictionary word by word and use that instead.
- 31 Approximate only. They will vary. Use them as a
- 32 Current version (not tested here) is WordStar Professional release 4. \$ 700 initial purchase or \$238 for upgrade from existing WordStar product.
- 33 GeoWrite 1.3 included in GEOS 128 package package price \$129.00. Later versions packaged in Geo-Write Workshop 128 at \$119.00.



C64 Datasette...

Family Pack (C64, 5 programs, 1 joystick) Propak C64 + 1541, Geos + Garnes

1301 Mouse for 64/128.

Magic Mouse.

Viatel Modem for 64/128.

Nice Modem, 1200/75 + 300 Baud.

Netcomm 64/128 Modem 1200/75 and 300 baud communications.

Xetec Interfaces CBM senal to centronics; Junior.

128D, with built in disk drive ... 1351 Mouse for 64/128.....

Senior, with 8K buffer Gold, with 32K buffer 64 Power Supply Freeze Machine back up cartridge

COMMODORE PC's PC 10 Series III, single drive.

PC 10 Series III + 33 M H/D PC Colt, dual drive, 640K RAM ...

Thomson Autoscan hi-res rolour.
Thomson EGA hi-res card.
Joystick cards for PC
Joystick for PC

TTL green hi-res Monitor 1084S Colour Monitor

Final Cartridge III.

MAIL ORDER

Front 13 Gibbes Street. East Chatswood, NSW 2067

Phone: 417 7395

TOLL FREE (008) 25 2130

\$59.95

\$599 \$89.95

\$59.95 \$39.95 \$249.00

\$229 \$129 \$199

\$279 \$49.95 \$149.95

\$139.95

\$1399

\$1995 ...\$299 ...\$599 ..\$1199

\$399 \$44.95 from \$49.95

\$89.95 \$149.95

\$449 \$449

\$749.00

\$399 \$299 \$599

Call to check latest prices

AMIGA HARDWARE



The state of the s	100000000000000000000000000000000000000
Actionware light phaser gun	\$69.95
Amiga 500 Pack, includes Amiga 500, Textcraft	
+ Word Processor	\$899
Stereo, T/table dual cass, tuner	\$299
Amiga 500 1/2 megabyte RAM	\$299
1084S Monitor, full colour, stereo sound	\$599
Philips Stereo Monitor (2 year warr.)	\$599
Amiga Modulator, connect A800 to TV	\$59.95
Pocket Modern, connects to A500 for 300, 1200/75	
and 1200 communication	\$349
1010 Disk Drive, second drive for A500 and A1000	\$349
California Access CA880 Disk Drive	\$279
Perfect Sound II for A500/A2000 sound digitising	\$259.95
Perfect Sound for A1000	\$199.95
Sidecar for A1000 IBM emulation	\$499
Time Saver Keyboard Macros for A1000	\$149.95



Accelerator processor, increase Amiga to 16 MHz	\$399
Amiga 2000	Call
Amiga 2000 with 2nd 31/2" and Textcraft	Call
Amiga 2000 with colour monitor	Call
A2000 PC-XT Emulation (bridgeboard) with 512K RAM	
5½" Drive + MSDOS	S999
AT Bridgeboard inc. 1 meg.	\$1995
A2000 Hard Drive Controller	\$399
A2000 8 Meg Board with 2 Meg installed	S1299
A2000 Internal 3.5" Drive	\$299
PC Hard Card 33 Meg H/D + Controller	\$699
Flicker Fix Card Flicker Free Hi Res Card	\$995
Genlock, A8802 from Rendale	\$999
	\$149.95
Digiview Gold Software + Filter	\$399.00
Digiview Gold with AWA Camera + lens	\$1275
Trump card SCSI H/D controller	\$399
Hard drive 40 meg inc. controller	\$1399
Perfect Vision, video frame grabber	5599

ATARI ST

Administration Professional Confession Confe	F
Advantage Pack, 1st word W/T Neo-chrome + 520ST FM Computer with 512K	5 games \$99 \$699
1040ST FM Computer with 1 Meg RAM	\$899
Mega ST2 Computer with 2 Meg RAM	\$249
Mega ST4 Computer with 4 Meg RAM	\$349
Mega File 20 Hard Drive	\$1295
Mono Monitor SM124	\$399
C-l M CC4004	\$649
SF Disk Drive	\$449





Compatible Drive



CUMMUDURE 64/128	
Commodore C64C	\$249
1541C Disk Drive	\$349

Best Value Best Value \$1995	★ 640K RAM ★ 8MHz Clock ★ EGA, CGA, Mono ★ 33 meg H/disk ★ Mouse + Paint ★ Heaps of software ★ MS DOS + GEM (Monitor Extra)
Imagineer From	ring Ultra's n 1499
PRINTERS	
Commodore	

Witty Mouse
DMS Mouse Kit, with mat + software
JT Fax, turns your PC into send and receive fax machine
Handi Scanner, copies pictures onto your PC screen.

MPS 1250 for 64/128 and centronics MCS 810 colour for 64/128 MCS 820 colour for Amiga MPS 1280, 15" width, 9 pin MPS 2020 fast 10" width – colour EPSON LX800 \$47900



NX24-10 24 pin quality

Centronics 9 pin NLQ Tractor included.

Epson

LV900 - text and graphics	\$479
LX800 - text and graphics LQ500 budget 24 pin quality	\$749
EX800 superfast 9 pin, colour option	\$999
LQ850 tast 24 pin	\$1199
FX1000 15" 9 pin	\$899
FX1050 fast 15" 9 pin	\$1199
EX1000 super fast 15", colour option	\$1299
LQ1050 fast 15" 24 pin	\$1499
LQ2500 top of the line 24 pin, 15" with colour option	\$1995
GQ3500 laser	\$3195
Colour options for EX800/1000 or LQ2500	\$139.95
Epson serial port cards from	\$79.95

\$499.00 NX1000 9 pin - Multiple Fonts

Epson GX, LX80, LX86	\$13.95
LX800, FX800, FX850, RX800	\$17.95
LQ500, LQ800, LQ850	
L01000, L01050	\$29.95
EX800/1000 black	\$24.95
EX800/1000	\$34.95
Commodore 801, 802, 803, 1101, 1200, 1250	\$14.95
Star etc. NX1000 black.	\$14.95
NX1000 colour	\$29.95
NX24	240 05
Citizen 120D	\$14.95
Olympia NP30	\$14.95

PERIPHERALS

0.00.	
BitBlitzer modem, 1200, 300, RS232C, Auto	\$399
Citizen 120D printer for 64/128	\$399
Olympia NP30 printer for 64/128	
Citizen 120D centronics or 64/128 interface	\$89.95
C16/plus 4 joystick	\$19.95
Wico 3 way joystick	\$74.95
Wico Rat Handle invetick	\$49.95
Wico Redball joystick	\$49.95
Wico Trackball	
Tac 2 joystick	\$49.95
Quickshot II joystick	\$24.95
Quickshot II Turbo joystick	
Cruiser joystick	
Quickshot 113 (PC) joystick	\$49.95
Netcomm Pocket Modern A500	\$349
The state of the s	
Avtek 2400 baud	S499
Avtek Mega Modern 123E 300, 1200, 1200/75	\$499
Viatel Modem for 64/128	\$39.95
RS232C cables, IBM and Amiga	\$39.95
Centronics cables, IBM and Amiga	\$39.95
CBM serial cables 64/128	\$19.95
C64/128 TV cable	\$14.95
	\$19.95

ACTIONWARE GUN!

\$69-95 For Amiga Capone, POW, Creature DOUBLES THE ACTION!

Seagate 33 M H/D and Controller	\$599
Hardcard 33M for IBM	\$699
Monitor Stand, tilt and swivel	\$39.95
Printer Stand with paper tamer	\$39.95
Computer Desk 1200, black, grey, beige	\$199.00
Computer Desk 1300, black, grey, beige	\$279 00
Computer Desk 795, black, grey, beige	\$149.00
Mouse Mats (big)	\$19.95

BOOKS

Amiga Intuition Ref. Manual	\$49.95
Amiga ROM Kemal Ref. Manual	
Amiga ROM Kernal Exec. Ref. Manual	\$49.95
Amiga Hardware Ref. Manual	\$49.95
Computer Animation	\$49.95
Mastering Amiga Dos	\$39.95
Inside Arniga Graphics	\$39.95
C64 Programmers Ref. Guide	544.95
C128 Programmers Ref. Guide	\$59.95
Jumpdisk - Magazine on Disk	S19.95
Megadisk - Magazine on Disk	\$19.95
Kings Quest I, II, III Hint Books	\$19.95 ea
Leisure Suit Larry Hint Book	\$19.95
Space Quest Hint Book	\$19.95
Bard's Tale I. II. III Hint Books	\$29.95 ea

STATIONERY

5%" (10) Disks Memorex	\$14.95
5½" No Frills (10)	\$9.95
31/3" Memorex (10)	\$29.95
No Frills 31/2" (10)	
5%" Disk Storage Box (100)	\$24.95
31/4" Disk Storage Box (40)	\$19.95
3%" Disk Storage Box (80)	\$24.95
Rediform A4 900 sheet carry p.	ack \$39.95
Rediform Quarto 900 sheet car	



MicroComputer Spot

Phone: 417 7395. Front 13 Gibbes Street, East Chatswood, NSW 2067

TOLL FREE (008) 25 2130

MAIL ORDER

AGC CREDIT LINE NOW AVAILABLE



AMIGA SOFTWARE

AMIGA SUFI	WARE		
4th & Inches 4th & Inches Team Const.	Gridinon Sim.	\$54.95	
AC Basic	Basic Compiler	\$39.95 \$419.95	
Action Service	Shoot 'em up	\$54.95	
Advanced Midi Sampler Aegis Draw 2000	Latest midit	\$249.95 \$419.95	
Amiga Basic In & Out Disk	CAD package	\$29.95	
Amiga C for Beginners Disk	A must for those reading the book. Time saving dsk to match book fr Ab	acus\$29.95	3
Amina Disk Drives In/Out	D Helpful dsk save time suits Abacus t	ook \$29.95	- 3
Amiga Enhancer Pack Amiga Talk	1 3 DOS Viatel package (for modems)	\$109.95	1
Amiga Temi	Viatel package (for modems) Cheap comm's Bay-traced animator	\$29.95	
Animate 3D	Ray-traced animator Programming language	S284.95 \$89.95	
Arkanoid	The classic breakout game	\$84 95	
Assempro	Ultimate programmers language	\$189.95 \$529.95	
Aztec Manx C Professional	Ultimate programmers language C compiler Extra for Aztec 'C'	\$529.95	
B.E.S.T. Accounting	Full accounting	S169.95 S569.95	
B.E.S.T. Accounting Mini		\$339.95	
Balance of Power	Folitical world strategy	\$79.95	
Bards Tale Bards Tale 2	Animated adventure Continued	\$54.95 \$54.95	- 1
Battle Chess	3D animated chess	\$74.95	- 1
Battleships	Classic pen board name	\$74.95 \$29.95	
Becker Text Bermuda Project	Graphic wordprocessor	25,22,22	
Beyond Ice Palace	3D adventure game Ghosts & Goblins	\$54.95	- 1
Bionic Commandos	Action!!!	\$74.95	i
Black Cauldron	Walt Disney 3D adventure game	\$54.95	1
Black Jack Academy Bone Cruncher	Professional card game Arcade maze action	\$44.95 \$49.95	H
Bubble Bobble	Arcade classic??	\$44.95	;
Bubble Ghost	. Wackky arcade	\$74.95	i
Business Card Maker California Games	Create and print your own! Wish there could all be California Gan	\$109.95	-
Capone Capone	Great light gun shoot in up	\$49.95	E L
Captain Blood	Animated space adventure	\$79.95	i
Carrier Command	The ultimate 3D simulation/	\$74.95	L
Challenger Chessmaster 2000	Space action dodgem game Best quality 3D chess ever	\$29.95 \$54.95	L
Chicken Little	Learn to read educational	\$44.95	L
City Desk	Desk top publishing package	\$174.95	i
Cli-Mate Corruption	Disk and directory util	\$84 95	t
Crash Garret	New magnetic scrolls adventure Unique 3D adventure	\$69.95 \$74.95	L
Crazy Cars	3D street racing fame, 4 cars	\$54.95	Ň
Crimson Crown	Great budget graphic adventure	\$9.95	٨
Chics Choice Dalley Thompsons 0 C Dark Castle	Kind words, maxiplan, MF filter 10 sports games	\$419.95 \$74.95	N N
Dark Castle	Animated adventure	\$64.95	Ň
Data Retrieve	Quality data base system	\$179.95	M
Data Retneve Professional Decimal Dungeon	Animated adventure Quality data base system Now programmable Educational jumor high 5th SDI simulator Classes old Epoland	\$359.95 \$54.95	N
Defcon 5	SDI simulator	\$74.95	N
DURENCE OF OTOWN	Orasore ora Erigiana	\$79.95	N
Deluxe Music Construc Set Deluxe Paint 2	Composition editor	\$59 95	N
Deluxe Paint Art & Utility	Top art package Extra for D Paint	\$244.95 \$44.95	N
Deluxe Paint Help	Great tutoring package	\$69.95	N
Deluxe Photo Lab	Ham image processing	\$244.95	N
	Posters and banners More art pieces D Print	\$189.95 \$54.95	N
Deluxe Productions	Professional video graphics	\$244.95	N N
Deluxe Video	Design and run video productions	\$189.95	
Demolition Destroyer	Great new arcade shoot 'em up! Battle ship simulator	\$29.95	ò
Digi Paint	Professional H A M paintbox!	\$59.95 \$134.95	0
Digi View Update	Software upgrade only!!	\$49.95	ő
Digiview Gold	Latest to range of newtek digit packs.	\$389.95	P
Director Discovery Maths	Ultimate scriptbased controller Maths action game	\$129.95 \$59.95	P
Discovery Spelling	Spelling game arcade	\$59.95	P
Disk Mechanic	Speed up your disks	S169.95	P
Double Dragon Dr T Midi Recording	The arcade hit \$Best midi sequencer	\$59.95 \$104.95	P
Dungeon Master	D & D for Amiga	\$64.95	P
Electronic Cash Book	Accounts	\$209.95	Pf
Elite I	Must have for any collec flt/strat	\$49.95 \$54.95	P
Empire Strikes Back I	Superb strategy Follow up to Star Wars		Pt
Excellence	Follow up to Star Wars Scribble III? Top word pro Machine code editor monitor	\$519.95	Ph
Explorer	Machine code editor monitor	\$149.95	Pi
FA18 Interceptor	Brilliant flight sim 16 missions Amina's No. 1 program	\$79.95	P)
FACC 2	Floppy cache system	\$69.95	PI
Faery Tale	Animated fantasy	\$69.95	Po
Fantavision Fernandez Must Dis	Animate your art	\$114.95	Pr
Ferrari Formula 1	Action action action	\$54 95	Pr
Final Mission	Arcade action game	\$64.95	Dr.
Fine Print	Improve your printer output	\$74.95	Pr
First Shapes	Hoad plasters arcade game Rest young education seed	\$54.95	Pr
Fleet Check	Real time spell checker	\$59.95	D-
Flight Simulator 2	Classic instrument flying	\$114.95	Pr
Flintstones (breat arcade fun Bubik's rube	\$84 95	PL
Flipside	Turn that spreadsheet sideways	\$64.95	PL
Football Manager 2	Soccer strategy	\$49.95	-Oi
Forms in Flight 2	Machine code editor monitor situation in injunts on 16 missions Armigals No. 1 program Flooppy cache system Animated your art Action was strategy Action action action action Arcade action game improve your printer output Flood blastess arcade game best young education seen fleat time spell checker classes unstructured floor floor action that your printer output Flood blastess arcade game best young education seen fleat time spell checker classes unstrument tilying sireat arcade fum fluidis could form that spreadsheet sideways Socoer strategy 20 modelling Programming language Educational 5th grade & up	\$199.95	Re
Fraction Action	Educational 5th grade & up	\$84.95	Re
The state of the s			130

Future Tank	3D arcade tank action	\$39.95
Galileo Garrison 2	Astronomical planetarium Gauntlet style	\$124 95 \$84 95
Global Commander	Military simulator	\$74.95
Gnome Ranger	Graphic adventure name	630 06
Gold Spell Gone Fishin	80,000 word spelling checker	
	Hook a bass trout Comm's with Viatel	\$64.95 \$104.95
Great Giana Sisters	High quality platform game	\$69.95
Grid Start Hardball	Fantastic formula 1 racing Baseball arcade	\$39.95 \$69.95
	Strip your computer	\$29.95
Hostages	Strip your computer Try your skill as a marksman/comma Submarine strategic warfare New shoot 'em un	ndo \$74.95
Hunt for Red October Hybris	Submarine strategic warfare	\$54.95 \$74.95
Bran Morrior	Combut	#E 4 OF
Impact Game	Breakout game Classic platform game Real time music jammin' Typing tutor Share sculpt 30 Arcade warfare	\$54.95
Impossible Mission 2	Classic platform game	\$54.95
Intellitype	Typino tutor	\$54.95
Interchange	Share sculpt 3D.	\$104.95
Into Eagles Nest	Arcade warfare	\$59.95
Intro CAD parts	Arcade warfare Super high quality printouts! CAD bits and pieces	\$144.95 \$54.95
Jump Jet Jumpdisk	Harrier jet simulator	\$39.95
Jumpdisk	. Mag on a disk	\$19.95
Kampfgruppe	Strategic tank warfare Quality educational software Quality wordpro/supports fonts	\$74.95
Kid Talk Kind Words	Quality worders (supports fonts	\$54.95 \$169.95
Kinderama	Educational preschool age	\$84.95
King of Chicago Kings Quest 1	Cinemaware classic The start of a classic	\$84.95 \$54.95
Kings Quest 1 Kings Quest 2	The start of a classic	\$54.95 \$54.95
Kings Quest 3	The quest continues	\$54.95 \$54.95
Knight Orc	A 3 part fantasy adventure	\$69.95
Lancelot	A hard adventure from level 9	\$59.95
Laserscript Lattice C Compiler	Laser driver for Pagesetter The #1 'C' compiler	\$79 95 \$374 95
Lattice C Development V5	Latest from Lattice inc. app. 300 libs	\$539.95
Leatherneck	Commando for Amiga	\$74.95
Legend of Sword	Graphic adventure	\$54.95
Leisure Suit Larry Lights Camera Action	Adults only graphic adventure Animation and Graphics	\$64.95 \$144.95
Lombard Rally	Car rally racing	\$69.95
Lost Worlds	Barbarian/Terropods	\$64.95
LPD Writer	Another wordprocessor	\$199.95
Macro Assembler Marble Madness	Programmer's tool	\$254.95 \$64.95
Mastertype	Arcade quality game!!!	\$79.95
Math Talk	Quality educational software	\$54.95
Math Wizard	Maths fun	\$84.95
Mavis Beacon Teaches Typ Maxiplan 500	Professional spreadsheet	\$84 95 \$279.95
Maxiplan Plus	Top spreadsheet	\$334.95
Mean 18	Golf and construction	\$54.95
Menace Mission Elevator	More latest shoot 'em ups Elevator action type arcade	\$74.95 \$74.95
Modular 2	The language	\$259.95
Mortville Manor	Boring adventure	\$59.95
Murder on Atlantic Music Studio	Oh hum	\$74.95
Nebulus	Music maker with midi control Fast action	S79.95 \$54.95
Netherworld	Great graphics	\$54.95
Nimbus	Small business accounting pack	\$269.95
Vinja Mission Off Shore Warrior	Kung fu arcade action Boat blasting!!!	\$29.95 \$64.95
Operation Clean Street	Action arcade	364,95 SK4 95
Operation Wolf	Action arcade . Out of the arcade, into your room, acti	on \$64.95
Outrun	Car action classic	\$64.95
P 0 W Pacmania	Great with a gun Not space invaders	\$49.95 \$54.95
Page Setter	Desk top publishing package	\$169.95
Passengers Wind	More baked beans	\$79.95
Perfect Sound A500	Audio digitizing	\$169.95
Peter Beardsley Soccer Phalanx	3D arcade soccer game Great new arcade shoot 'em up!	\$74.95 \$29.95
Phalanx 2	Wiz bang follow-on	\$29.95
Phantasie	D & D role playing game	\$74.95
Phantasie 3 Phaser	The wrath of Nikademus Home accounts	\$54.95
Photon Paint	Superb graphics editing pack	S134.95
hoton Video Cell	New animation tool	\$249.95
ennk Panther Pinneer Planie	Arcade game of the famous guy!	\$59.95 \$60.05
Pixmate	Professional graphic editor	\$129.95
Platoon	Army shoot 'em up	\$74.95
Power Styx	The arcade game Styx	\$49.95
Printmaster	Banners and posters	574 Q5
Printmaster fonts & borders	Art for Printmaster	\$59.95
	Design and print signs, cards, etc.	\$89.95
rintmaster Plus	Audio editor	\$224.95
Printmaster Plus Pro Sound Designer	Video effects	\$448.80
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus	Video effects Top video editor	S594 95
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus Professional Page	Video effects Top video editor Best desk top publisher	\$674.95
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus Protessional Page Provinte	Video effects Top video editor Best desk top publisher Wordpro with colour and graphics	\$594.95 \$674.95 \$229.95
Intimaster Plus Pro Sound Designer Pro Video Pro Video Plus Protessional Page Prowrite Pub Pool Publisher Plus	Video effects Top video editor Best desk top publisher Wordpro with colour and graphics 8 ball pool Desk top nublishing package	\$594.95 \$674.95 \$229.95 \$29.95 \$180.05
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus Pro Video Plus Professional Page Prowrite Plub Pool Publisher Plus Juarterback	Video effects Top video editor Best desk top publisher Wordpro with colour and graphics 8 ball pool Desk top publishing package Hard drive back up tool	\$594 95 \$674 95 \$229 95 \$29 95 \$189 95 \$129 95
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus Protessional Page Prowrite Pub Pool Publisher Plus Juanethack Juestron 2	Video effects Top video editor Best desk top publisher Wordpro with colour and graphics 8 ball pool Desk top publishing package Hard drive back up tool Role playing	\$594 95 \$674 95 \$229 95 \$29 95 \$189 95 \$129 95 \$54 95
Printmaster Plus Pro Sound Designer Pro Video Pro Video Plus Professional Page Prowrite Publisher Plus Duarterback Duestron 2 Read and Rhyme	D & D role playing game. The wrath of Nikademius. Home accounts. Superb graphics editing pack. New animation tool. Arcade game of the amous guy! 4096 colour blast. Professional graphic editor. Army shoot em up. The arcade game Styx. Adventure game. Banners and posters. Art for Printmaster. Design and print signs, cards, etc. Audio editor. Video effects. Top video editor. Best desk too publisher. Wordpro with colour and graphics. 8 ball pool. Desk top publishing package. Hard drive back up tool. Role playing. Educational 5 to 10 yr olds. Peading program. More from Star Wars.	\$594 95 \$674 95 \$229 95 \$29 95 \$189 95 \$129 95 \$54 95 \$84 95

Return to Atlantis	Underwater strategic game	\$64.95
Return to Genesis Road Wars	High speed shoot 'em up game Arcade action	\$59 95 \$54 95
Roadwar 2000	New strategic game from SSI	\$74.95
Roadwars	Great 3D arcade racing fun	\$54.95
Rocket Ranger Rockford	Cinemaware classic The Boulderdash classic game	\$79.95 \$29.95
Rolling Thunder	Action platform game	\$84.95
S.D.I Sargon Chess 3	Outer space animation Can beat Chessmaster 7 out of 9	\$84.95 \$104.95
Scribble	Quality WP	\$54.95
Sculpt 3D	Professional rendering pack	\$209.95
Sex Vixens from Space Shakespeare	A hot little number Colour desk top publishing	\$64.95 \$389.95
Sidewinder	My favourite space shoot 'em up	\$34.95
Silent Service Silicon Dreams	Fantastic 3D submarine sim	\$59.95 \$59.95
Sinbad & Throne of Falcon.	Action adventure	\$79.95
Sky Blaster	Lousy shoot 'em up	\$74.95
Sky Chase Sky Fighter	Fly paper planes Shoot 'em up	\$59.95 \$39.95
Skylox	Shoot 'em up	\$29.95
Skyfox 2 Softwood File	Shoot 'em down again!	\$54.95 \$179.95
Solitaire Royale	Database system	\$69.95
Sonix	Music editor	\$169.95
Space Battle Space Quest	Great arcade shoot 'em up!	\$29.95 \$79.95
Space Ranger	Nice arcade space game!	\$29 95 \$29 95
Space Station	Future adventure Xenon lookalike	\$29 95 \$74 95
	Quality educational spelling	\$74.95
Star Wars	Arcade game of the movie	\$54.95
Starglider 2	Space arcade action	\$69.95
Stargoose	Similar to Elite Great scrolling	\$74 95 \$49 95
Street Fighter	Arcade thuggery	\$74.95
Street Gang Strike Force Harrier	Street warfare Just a F16!	\$49,95 \$74,95
Strip Poker 2	Prettier girls	\$39.95
	Submarine simulator	\$59.95 \$59.95
Super 6	Burich of sports games 6 pack of Anco games	\$59.95
Superbase Personal	Filing system	\$134.95
Superbase Personal 2 Superbase Protectional	New improved version	\$209.95
Superbase Professional Superbase Prof Upgrade	Hully programmable version Now includes multi-line trans V3 01	\$524.95 \$89.95 \$69.95
Superman	Cartoon animated action Spreadsheet for Superbase	\$69 95 \$209 95
Swooper	Quality arcade space game	\$39.95
Sword of Sodan	4 disks of pure violence	\$74.95
Telegame Terramex	Modern garnes	\$74 95 \$39 95
lest Drive	Great new car driving game	\$59.95 \$74.95
letra Quest	Mindblowing shoot em up The first Soviet arcade	
	Another WP	\$49.95 \$119.95
Thexder	Sierras latest adventure	\$54.95
Three Stooges Thunder Blade	Another Cinemaware classic Helicopter shoot 'em up	\$64.95
Thunder Boy	Off the arcade	\$64.95
fime & Magic fracers	3 level 9 adventure games	\$59.95 \$59.95
True Basic 1	Like the Tron game Programming language	\$254.95
urbo irax	Computerized slot car racing	\$74.95
TV Show TV Text	Video text display Character generator software	\$194.95 \$194.95
JCSD Pascal	The industry standard	\$194.95
	Better than 2	\$109.95
IMS E	Even better than 3 Sattle sim. Battle of Waterloo inc.	\$59.95
/ader I	Pathetic arcade	\$24.95
/ampire's Empire /eteran	Blood-thirsty arcade For the mature Rambos	\$74.95
	3D animation pack	\$44.95 \$354.95 \$259.95
/ideo Titler 1	Titler for videos?	\$259.95
/IP Professional I fizawrite [Lotus 1-2-3 type package Desktop wordpro' with fonts	\$324.95 \$219.95
/olfeyball Simulator	Table tennis	\$54.95
Var Zone 1	More action in space	\$29.95
May of Little Dragon F	Kung-fu action Space blowing action	\$74.95 \$44.95
Who Framed Roger Rabbit A	vicade action from the movie leader Board/Test Drive/ 3 on a disk	\$64.95 \$54.95
Vinners L	eader Board/Test Drive/ 3 on a disk	\$54.95
Vinter Camer	Winter sports	\$74.95
	CONTROL TO THE PARTY OF THE PAR	\$74.95
Vinter Olympiad 88	Arcade action	\$74.95
Vinter Olympiad 88 Vizard Warz // Vord Master S	Spelling game for kirds	\$84.95
Vinter Olympiad 88 Vizard Warz / Vord Master S Vord Perfect 1	Spelling game for kids	\$84.95 \$299.95 \$379.95
Vinter Olympiad 88 Vizard Warz Vord Master Vord Perfect Vorks Vorld Class Leader Board	Spelling game for kids The ultimate word processor Scribble/analyse/organise (1 Golf Game	\$84.95 \$299.95 \$379.95 \$39.95
Vinter Olympiad 88 Vizard Warz Vord Master Vord Perfect Vorks Vorld Class Leader Board Vorld Tour Goll E	Spelling game for kids The ultimate word processor Scribble/analyse/organise (1 Golf Game	\$84.95 \$299.95 \$379.95



MicroComputer Spot

TOLL FREE (008) 25 2130

MAIL ORDER AGC CREDIT LINE NOW AVAILABLE



Cass. Disk

C64/128 SOFTWARE

	Cass. Disk
10 Game Super Pac (AA) 10 Great Games 2 (AA)	\$19.95
10 Great Games 3 (AA)	\$39.95 \$39.95
19 (SI)	\$20 05 \$20 05
10 Great Games 3 (AA) 10th Frame (S) 19 (SI) 720 Degrees (S) Acrojet (SI) Adult Poker (SI) Advanced Music Sy (H)	\$29.95 \$39.95
Acrojet (SI)	\$39.95 \$39.95
Adult Poker (SI)	\$29.95
Advanced Music Sy (H)	\$109.95
Aesops Fables (ED) Afterburner (AA) Airborne Ranger (SI)	\$44.95
Airborne Ranger (SI)	\$49 95 \$59 95
AIIDOMP RAIGHER (SI) AII Star (AA) Americas Cup Chal (U) Annals of Rome (SI) Arcade Force Four (AA) Arkanoid (AA) Army Moves (SI) Around World 80 D. (ED) Artic Fox (II)	\$39.95
Americas Cup Chal. (U)	\$9.95 \$29.95
Annals of Rome (SI)	\$39.95 \$39.95
Arcanel (AA)	\$39.95 \$54.95
Army Moves (SI)	\$29 95 \$34 95
Around World 80 D. (ED)	\$29.95 \$39.95
Artic Fox (U) Autoduel (SI) Award Ware (BU) B-24 Command (SI) Barbanian (AA) Bards Tale (AD) Bards Tale 2 (AD) Bards Tale 3 (AD)	\$39.95
Autoduel (SI)	\$24.95
P-24 Command (SI)	\$39.95
Barbarian (AA)	\$39.95
Bards Tale (AD)	\$29.95 \$39.95
Bards Tale 2 (AD)	\$39.95
Bards Tale 3 (AD)	\$39.95
Batman Caped Crus. (S1)	\$29.95 \$39.95
Bards Tale 3 (AD) Batman Caped Crus. (ST) Battle for Norman (SI) Battle Front (SI)	\$54.95
Battle Front (SI) Battle of Britain (SI) Beyond (Commandos (AA) Bronzel (CI)	\$29.95
Beyond Ice Palace (AA)	\$29.95 \$39.95
Bionic Commandos (AA)	\$29.95 \$39.95
Bismark (SI)	\$39.95
Blitzkrieg (SI)	\$20 05 \$30 05
BMX Simulator (U)	\$9.95.\$14.95
Boulder Dash Cons. (AA)	\$34.95 \$34.95
Breakthrough (AA)	\$29 95 \$34.95
Bubble Ghost (AA)	\$39.95
Bugbitz (AA)	\$29.95 \$39.95
Calendars & Stati (BU)	\$24.95
Bismark (SI) Bitz 128 (U) Boulder Dash Cons (AA) Breakthrough (AA) Bubble Ghost (AA) Bubble Ghost (AA) Bubble Ghost (AA) Build a Book (ED) Calendars & Stati (BU) California Games (S) Captam Blood (AD) Card Sharks (SI) Carriers at War (SI) Carvers at War (SI) Caveman (AA) Charlie Browns AB (ED) Check Book (BU) Chesmaster 2000 (SI) Chubb Winste (AA) Chuck Yeagers Fli (U) Clever & Smart (AA) Club Casino (SI) Club House Sports (S) Coloumne (ED) Combat School (AA) Combat Zone (AA) Combat Zone (AA) Comics (AD) Concentration (SI)	\$24.95 \$34.95
Captain Blood (AD)	\$39.95
Card Sharks (SI)	\$29.95 \$39.95
Carriers at War (SI)	\$54.95 \$30.05
Charlie Browns AB (FD)	\$29.95
Check Book (BU)	\$29.95
Chessmaster 2000 (SI)	\$29.95 \$39.95
Chubby Gristle (AA)	\$29 95 \$39 95
Clever & Smart (AA)	\$39.95
Club Casino (SI)	\$19.95
Club House Sports (S)	\$49.95
Colourne (ED)	\$49.95
Combat School (AA)	\$29.95 \$39.95
Comics (AD)	\$29.90
Concentration (SI)	\$29.95
Comentration (SI) Conflict in Vietnam (SI) Crossword Magic (SI) Cut & Paste (BU) Cybemoid 2 (AA) Dalley Thompsons (S) Dark Castle (AA) Park Hom (AA)	\$29.95 \$39.95
Crossword Magic (SI)	\$49.95
Cut & Paste (BU)	\$29.95
Dalley Thomosons (S)	\$29.95 \$39.95
Dark Castle (AA)	\$39.95
Diant From (Francy	000.00
Data Manager 128 (B) Deathlord (AD)	\$99.95
Deathlord (AU)	\$39.95
Decision in Deser (SI) Defender of Crown (SI) Delta Patrol (AA) Desolator (AA)	\$19.95
Delta Patrol (AA)	\$29.95 \$29.95
Desolator (AA)	\$29.95 \$39.95
Destroyer (U)	\$34.95
Disc Disector (A)	\$29.95
Double Image 2 (A)	929 90 544 90 90 Mg
Dragons Lair (AA)	\$29.95 \$39.95
Dragons Lair 2 (AA)	\$29 95 \$34 95
Dream Warnor (AA)	\$29.95 \$19.95
Druid (AA)	\$29.95 \$49.95
Farth Orbit State (SI)	\$34.95
Elite (SI)	\$49.95 \$49.95
Desolator (AA) Destroyer (U) Disc Disector (A) Double Dragon (AA) Double Image 2 (A) Dragons Lair (AA) Dragons Lair 2 (AA) Dragons Lair 2 (AA) Dragons Martin (AA) Druid (AA) Dungeon Master En (SI) Earth Orbit Stati (SI) Elite (SI) Empire (SI)	\$29 95 \$54.95
Elite (SI) Empire (SI) Empire Strikes Ba (AA) Europe Ablaze (SI)	\$29.95 \$39.95
Europe Abiaze (SI)	\$54.95

	Cass. Disk
Eye (AA) F18 Homet (U). Faery Tale (AD) Family Feud (SI) Fernandez Must Di. (AA) Filer (BU). Final Assault (AA) Final Cartridge 3 (A) Financial Cookbook (BU) Fist & Throttle (AA) Flight Simulator (U) Flight Simulator (U) Flight Simulator (U) Font 1 (BU). Fontmaster 128 (BU) Football Manager (SI). Foorestland (AD) Fox Fights Back (AA) Fury (AA) Game Maker (A) Games Summit Edit. (S) Garrield (ED). Garrield (ED).	\$29.95 \$39.95
F18 Homet (U)	\$39.95
Facily Tale (AD)	\$69.95
Fernandez Must Di. (AA)	\$29.95 \$39.95
Filer (BU)	\$39.95
Final Assault (AA)	\$34.95
Financial Cookbook (BU)	\$29 95
Fist & Throttle (AA)	\$29.95 \$29.95
Flight Simulator (U)	\$104.95
Flight Simulator (U)	\$24.95
Font 1 (BU)	\$74.95
Fontmaster 128 (BU)	\$94.95
Forrestland (AD)	\$49.95 \$39.95
Fox Fights Back (AA)	\$29.95 \$39.95
Fury (ÄA)	\$29.95 \$39.95
Games Summit Edit (S)	\$49.95
Games Winter Edit. (S)	\$24.95 \$34.95
Garfield (ED)	\$69.95
Garfield Game (AA)	\$29.95 \$39.95
Gauntlet (AA)	\$29.95 \$39.95
Gauntlet 2 (AA)	\$29.95 \$39.95
Gee Bee Air Hally (U)	\$29.95
Games Winter Edit. (S) Garfield (ED). Garfield Game (AA) Gato (U) Gauntlet (AA) Gauntlet (AA) Geo Bee Air Rally (U) Geocalc (BU) Geocalc 128 (B) Geople 128 (B) Geople 128 (B) Geople 128 (B) Geoppulsish (BU)	\$134.95
Geofile 128 (B)	\$134.95
Geoprogrammer (A)	\$124.95
Geos (BU)	\$104.95
Geos 128 (U)	\$134.95
Geos 2 (BU)	\$124.95
Gensnell (BII)	\$59.95
Geowrite 128 (B)	\$134.95
Gettysburg (SI)	\$74.95
Geofile 128 (B) Geoprogrammer (A) Geopublish (BU) Geos (BU) Geos (BU) Geos 128 (U) Geos 2 (BU) Geospell (BU) Greating (Cards (BU) Guderian (U) Guerilla War. (U) Heavy Metal (AA) Hercules (AA) Hercules (AA) Hot Shot (AA) Hot Shot (AA) Hot Shot (AA) Hot Shot (AA) Impossible Mission (AA) Impossible Mission (AA) Infiltrator 2 (AA) Inside Outing (AD) Into Eagles Nest (AA) Ivo Jima (SI) Jack Niclaus Golf (S) Jaul Break (AA)	\$29 95 \$29 95
Grand Prix Simula. (U)	\$9.95 \$14.95
Greeting Cards (BU)	\$24.95
Guerilla War. (U)	\$39.95
Guild of Thieves (AD)	\$59 95
Gulf Strike (AA)	\$39.95
Heavy Metal (AA)	\$39.95
Hercules (AA)	\$29.95 \$39.95
History in Making (U)	\$54.95 \$54.95
Hot Shot (AA)	\$29.95 \$39.95
Hunt for Red Octo. (SI)	\$39.95 \$74.95
Ikari Warrior (AA)	\$29.95 \$19.95 \$29.95 \$39.95
Impossible Mission (AA)	\$24 95 \$34 95
Indiana Jones (AA)	\$29.95 \$34.95
Intitrator 2 (AA)	-\$29 95 \$39 95
Into Eagles Nest (AA)	\$49.95
lo (AA)	\$29.95 \$39.95
Jwo Jima (SI) Jack Niclaus Golf (S) Jail Break (AA) Jane 128 (H) Jeopardy (ED) Jet (U)	\$39.95
Jail Break (AA)	\$29.95 \$44.95
Jeopardy (ED)	\$94.95
Jewels of Darkness (AD)	\$49.95
Junior Pac Man (AA)	\$19.95
Karate Ace (AA)	\$39 95 \$54 95
Kamov (AA)	\$29 95 \$39 95
Kellogs Tour (AA)	\$29 95 \$39 95
Knightmare (AA)	\$39 95
Kwik Calc (BU)	\$19.95
Kwik Check (BU)	\$19.95
Kwik Pad (BU)	S19 95
Kwik Write (BU)	\$44.95
LA Crack Down (AD)	\$34.95
Last Ninja 2 (AA)	\$29 95 \$39 95
Leader Board Trip (S)	S39 95
Jane Loc (H) Jeopardy (ED) Jet (U) Jevels of Darkness (AD) Junior Pac Man (AA) Kampfgruppe (SI) Karate Ace (AA) Keys to Typing (ED) Knightmare (AA) Keys to Typing (ED) Knightmare (AA) Kwik Calc (BU) Kwik Check (BU) Kwik Pad (BU) Kwik Pad (BU) Lancelot (AD) Lancelot (AD) Last Ninja 2 (AA) Leader Board Trip (S) Leam to Add & Su (ED)	S54 95

	Cass. Disk
Legacy of Ancient (AD) Lord of Rings (AD) M128 Cash Book (B) Magic Maths (ED) Magnetron (AA) Magnificent 7 (AA) Mainframe (AD) Mars Saas (St)	\$30.05
Lord of Rings (AD)	\$49 05 \$40 05
M128 Cash Book (B)	\$164.95
Magic Maths (ED)	\$39.95
Magnetron (AA)	\$29.95 \$39.95
Magnificent 7 (AA)	\$39.95 \$54.95
Mainframe (AD)	\$59.95
Mars Saga (SI)	\$39.95
Match Day 2 (S)	\$29.95 \$39.95
Matterbary Sergery (AA)	\$99.95
Mars Saga (St) Match Day 2 (S) Math Blaster (ED) Matterhorn Scream (AA) Mini Office 2 (BU) Modem Wars (AA)	\$44.95
Modem Wars (AA)	\$39.95
Moebius (SI)	\$24.95
Movie Maker (A)	\$29.95
Music Construction (H)	\$29.95
Music Studio (H)	\$49.95
Musician (H)	\$24.95
Nam (SI)	\$74.95
NATU Commando (SI)	\$19.95
Newgroom (RII)	\$39.95
Night Baider (SI)	\$39.95
Ocean Ranger (AA)	\$39.95
Ogre (SI)	\$49.95
Oink (AA)	\$34.95
Operation Wolf (AA)	\$29.95 \$39.95
Outrun (AA)	\$29.95 \$39.95
Pacland (AA)	\$39.95 \$49.95
Modern Wars (AA) Moebius (SI) Movie Maker (A) Music Construction (H) Music Studio (H) Musician (H) Nam (SI) NATO Commando (SI) Neuromander (ST) Newsroom (BU) Night Raider (SI) Ocean Ranger (AA) Ogre (SI) Oink (AA) Operation Wolf (AA) Operation Wolf (AA) Pacland (AA) Pactronic Budget (AA)	\$29.95 \$39.95
Pactionic Budget (AA)	
Paper Boy (AA) Paperclip (BU) Patton V Rommel (SI) Pegasus (AA) Pepsi Challenge M (AA) Peter Beardsley S (S) Phantasie (SI) Phantasie 2 (SI)	539.93
Phantasie 2 (ŚI)	\$74.95
Pirates (AA)	\$19.95 \$49.95
Pirates of Barbar (AA)	\$20.05
Pocket Filer 2 (BU) Pocket Planner 2 (BU) Pocket Writer 2 (BU) Pool of Radiance (SI)	\$94.95 \$94.95
Pocket Writer 2 (BU)	\$94 95 \$94.95
Pool of Radiance (SI)	\$54.95
Predator (AA)	\$29 95 \$34 95
Libardon is wilsa (AD)	000.00.040.00
Print Kit (BU)	\$24.95

Paper Boy (AA)	\$19 95 \$19 95
Paperclip (BU)	
Patton V Rommel (SI)	\$20.05
Pegasus (AA)	S29 95 \$39 95
Pepsi Challenge M. (AA)	\$39.95
Pegasus (AA)	\$29.95 \$39.95
Phantasie (SI) Phantasie 2 (SI)	\$74.95
Phantasie 2 (SI)	\$74.95
Piratec (AA)	210 05 C/10 05
Pirates of Barbar (AA)	\$29.95
Pocket Filer 2 (BU)	\$94.95
Pocket Planner 2 (BU)	\$94 95
Pocket Writer 2 (BU)	\$94.95
Pool of Hadiance (SI)	\$54.95
Predator (AA) President is Miss (AD)	\$29.95 \$34.95
President is Miss. (AD)	\$39.95 \$49.95
Print Kit (BU).	\$24.95
Print Kit (BU). Print Shop (BU).	\$79.95
Print Shop Compan (BU)	\$69.95
Print Shop Graphi. (BU)	\$49.95
Printmaster (BU) Psyco Pigs UXB (AA)	\$74.95
Psyco Pigs UXB (AA)	\$29.95 \$39.95
Questron 2 (SI) R Type (AA)	\$44.95
R Type (AA)	\$29.95 \$39.95
Rambo 3 (AA)	
Rampage (AA)	\$29.95 \$34.95
Ramparts (AA)	\$24.95 \$29.95
Red Storm Rising (SI)	S59.95
Return of Jedi (AA)	\$29.95 \$44.95
Road Blasters (AA) Road Runner (AA)	\$29.95 \$39.95
Road Runner (AA)	\$29.95 \$34.95
Road to Moscow (SI) Road Warrior (AA)	\$94.95
Road Warrior (AA)	\$29 95 \$39 95
Roadwars (AA)	\$39.95
Robo Cop (AA)	\$29.95 \$39.95
Bocket Bander (SI)	\$59.95
Roy of Rovers (AA)	\$39.95

Russia (SI)			\$54.95
Rygar (AA)	420		\$34.95
11yyai (nn)	ψ£3.	00	007.00
Salamander (AA)	\$29.	95	\$39.95
Serve & Volley (S) Signs & Banners (BU) Signs & Banners L. (BU) Silent Service (SI)	002	QF.	\$39.95
Serve a volley (S)	Φ23.	33	ф.J.3.33
Signs & Banners (BU)			\$24.95 \$19.95
Sinns & Ranners I (RII)			\$19.05
orgins & Darriers L. (DO)	233	2.15	9:0.00
Silent Service (SI)	\$39.	95	\$49.95
Sinbad & Throne O. (SI)			\$54.95 \$39.95
Shibau a Thione o. (31)	******	***	JJ4.3J
Skate Crazy (S) Skate or Die (S)	S29.	95	\$39.95
Choto or Dio (C)	000	OF	\$39.95
Skate of the (S)	DZ9	90	239.92
Skyfox (AA)	\$29	95	\$29.95 \$39.95
Cl fe 0 (11)	Y	~~	#20 OF
Skyfox 2 (U) Soccer Microprose (S) Soldier of Light (AA)			\$39.95
Soccer Microprose (S)	\$49	95	\$64.95
Colour Microprosid (O)			
Soldier of Light (AA)	929		\$39.95
Solo Flight (U)	\$29.	95	\$49.95
dolo i ligiti (o)	4.0		
Song Writer (H)			\$19.95
Sorcerer of Glaym (AD) Space Ace (AA) Space Harrier (AA) Spell It (ED)			520 95
Surcolei of diayin (Ab)			023.33
Space Ace (AA)	\$39.	95	\$54.95
Canan Harrior (AA)	ean.	OF	C10 0E
Space namer (AA)	DZ9	93	\$19.90
Spell It (ED)			\$99.95
Char Floor (CI)			CCA OF
Star Fleet (SI)			\$64.95
Star Ware (AA)	\$39	95	\$44.95
Ottal Francisco	000	00	000.05
Star Wars (AA) Street Fighter (AA) Streetsport Baske. (S) Sub Battle Simula. (U) Sumerhage (BU)	DZ9.	90	\$39.95
Streetsnort Baske (S)			\$19.95
O L D all O			004.00
Sub Battle Simula. (U)			\$34.95
Summer Olympiad (S)	\$24	95	C/0 05
outtime Olympiau (3)	φ04.	33	₩43.33
Superbase 128 (B) Superscript (BU) Superscript 128 (B) Supersports (S) Superstar Ice Hoc. (S) Superme Challenge (AA) Swift (AA)			179.95
Superbase 120 (b)			179,93
Superscript (RIII)		\$	104 95
Superscript (DO)			170.05
Superscript 128 (B)		5	1/9.95
Cuparenarte (C)			C30 05
auherahni ia (a)	*****		ψ00.00
Superstar Ice Hoc. (S)			\$49.95
Commercial Challenge (AA)	000	OF	COD OF
Supreme Challenge (AA)	252	90	258.30
Swift (AA)			\$54.95
C T- T- I D-L (AD)			000.00
SWISS Family Hobi. (AU)			\$39.95
Tack 3 / A A \	002	95	\$39.95
Swift (AA) Swiss Family Robi. (AD)	WLJ.	00	000.00
Task F (AA)			\$19.95 \$34.95 \$39.95
Tompo Tupo (C1)			C24 0E
Terripo Type (SI)			334.33
Tetris (SI) Thing II (AA)			\$39.95
Thine II (AA)	enn	OF	630 DE
Triing II (AA)	DZ3	30	\$39.95
Three Stoones (AA)			
Thursday Diagle (AA)	600	ne.	\$54.95
lask 3 (AA) Task F (AA) Tempo Type (SI) Tetris (SI) Thing II (AA) Three Stooges (AA) Thunder Blade (AA)	\$29	95	000 05
Thunder Blade (AA) Thunder Cats (AA)	\$29	95 95	000 05
Thunder Blade (AA) Thunder Cats (AA)	\$29 \$29	95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA)	\$29 \$29	95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA)	\$29 \$29	95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD)	\$29 \$29 \$29	95 95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA)	\$29 \$29 \$29 \$29	95 95 95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA)	\$29 \$29 \$29 \$29	95 95 95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD)	\$29 \$29 \$29 \$29	95 95 95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fiel Challego (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95	000 05
Thunder Blade (AA) Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islam (AD) Top Fuel Challeng (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95	000 05
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan. (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39 95 \$59 95 \$29 95 \$39 95 \$39 95 \$24 95 \$39 95 \$39 95 \$34 95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39 95 \$59 95 \$29 95 \$39 95 \$39 95 \$24 95 \$39 95 \$39 95 \$34 95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39 95 \$59 95 \$29 95 \$39 95 \$39 95 \$24 95 \$39 95 \$39 95 \$34 95 \$39 95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$34.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$34.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39 95 \$59 95 \$29 95 \$39 95 \$39 95 \$24 95 \$39 95 \$34 95 \$39 95 \$34 95 \$39 95 \$34 95 \$39 95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$34.95 \$34.95 \$44.95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$34.95 \$34.95 \$44.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhopon (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhopon (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$44.95 \$54.95 \$54.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$44.95 \$54.95 \$54.95 \$54.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T (SI) Tiyphoon (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$44.95 \$54.95 \$54.95 \$54.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T (SI) Tiyphoon (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$44.95 \$54.95 \$54.95 \$54.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon of Steel (AA) Typnon Tutor 4 (SI) Ugly Duckling (AA)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$44.95 \$54.95 \$54.95 \$54.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ugly Duckling (AA) Ultima 4 (AD)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$39.95 \$34.95 \$35.95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ugly Duckling (AA) Ultima 4 (AD)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$39.95 \$34.95 \$35.95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Trival Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typing Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 4 (AD) Ultima 5 (AD)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$54.95 \$54.95 \$54.95 \$54.95 \$54.95 \$55.95 \$55.95 \$55.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhon of Steel (AA) Typing Tutor 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$54.95 \$54.95 \$54.95 \$55.95 \$55.95 \$55.95 \$55.95 \$55.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhon of Steel (AA) Typing Tutor 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD)	\$29 \$29 \$29 \$29 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$34.95 \$34.95 \$54.95 \$54.95 \$54.95 \$54.95 \$55.95 \$55.95 \$55.95 \$55.95 \$55.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$54.95 \$39.95 \$44.95 \$59.95 \$59.95 \$59.95 \$59.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$24.95 \$39.95 \$34.95 \$39.95 \$54.95 \$39.95 \$44.95 \$59.95 \$59.95 \$59.95 \$59.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$35.95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$35.95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95	\$39.95 \$59.95 \$29.95 \$39.95 \$39.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$35.95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$34,95 \$33,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$35,95 \$39,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan .(AD) Top Fuel Challeng (AA) Top Gun (AA) Tireasure Island (AD) Tir Pack (AA) Trivial Pursuit T .(SI) Trivial Pursuit T .(SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typho Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shoo (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$39,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$35,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A) Vinden Title Shop (A) Vinden (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$39,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$35,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islam (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon (AD) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultime 5 (AD) Undeo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Viden (AA) War Games Pack (SI) War Games Pack (SI)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$59 95 \$39 95 \$39 95 \$39 95 \$34 95 \$354 95 \$354 95 \$354 95 \$39 95 \$30 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Trivalar Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Video Title Shop (A) Vindicator (AA) Vindicator (AA) War Games Pack (SI) Warp Speed (A) Warro Foed Warrior (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$39,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$35,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Trivalar Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Video Title Shop (A) Vindicator (AA) Vindicator (AA) War Games Pack (SI) Warp Speed (A) Warro Foed Warrior (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$39,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$34,95 \$35,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon (Steel (AA) Typing Tutor 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Vixen (AA) Vixen (AA) Warnor (AA) Warsp Speed (A) Warror (AA) Warror (AA) Warsp (SI)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39,95 \$59,95 \$39,95 \$39,95 \$39,95 \$34,95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Vindicator (AA) Vindicator (AA) Vindicator (AA) War Games Pack (SI) War Games Pack (SI) Warrior (AA) Warrior (AA) Warsing (SI) Wasteland (AB) Wasteland (AB) Wasteland (AB)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$59 95 \$39 95 \$39 95 \$39 95 \$39 95 \$34 95 \$35 95 \$34 95 \$35 95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Vindicator (AA) Vindicator (AA) Vindicator (AA) War Games Pack (SI) War Games Pack (SI) Warrior (AA) Warrior (AA) Warsing (SI) Wasteland (AB) Wasteland (AB) Wasteland (AB)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$59 95 \$39 95 \$39 95 \$39 95 \$39 95 \$34 95 \$35 95 \$34 95 \$35 95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Vindicator (AA) Vindicator (AA) Vindicator (AA) War Games Pack (SI) War Games Pack (SI) Warrior (AA) Warrior (AA) Warsing (SI) Wasteland (AB) Wasteland (AB) Wasteland (AB)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$23 95 \$23 95 \$23 95 \$23 95 \$23 95 \$23 95 \$23 95 \$23 95 \$23 95 \$24 95 \$24 95 \$24 95 \$24 95 \$24 95 \$25 95 \$25 95 \$25 95 \$29 95 \$2
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirreasure Island (AD) Tir Pack (AA) Tirvial Pursuit T (SI) Tirvial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A) Video Title Shop	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$59 95 \$39 95 \$39 95 \$39 95 \$39 95 \$34 95 \$35 95 \$34 95 \$35 95 \$3
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirreasure Island (AD) Tir Pack (AA) Tirvial Pursuit T (SI) Tirvial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A) Video Title Shop	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39.95 \$29.95 \$29.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$24.95 \$25.95 \$2
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirreasure Island (AD) Tir Pack (AA) Tirvial Pursuit T (SI) Tirvial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A) Video Title Shop	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$24 95 \$39 95 \$39 95 \$34 95 \$35 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirreasure Island (AD) Tir Pack (AA) Tirvial Pursuit T (SI) Tirvial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A) Video Title Shop	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$24 95 \$39 95 \$39 95 \$34 95 \$35 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon (Steel (AA) Typing Tutor 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 6 (AD) Video Title Shop (A) Video Title Shop (A) Vixen (AA) Warsin (AA) Warsin (AA) Warsin (AA) Warsin (AB) Warsin (SI) Wasteland (AD) Warsin (SI) Wasteland (AD) Where n Europe I (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Qz (AD)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$24 95 \$39 95 \$39 95 \$44 95 \$34 95 \$44 95 \$54 95 \$54 95 \$54 95 \$55 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirry Back (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Un Periscope (U) Video Title Shop (A) Video Title Shop (A) Vindeo Title Shop (A) Warshop (A) Worland (AD) Whorland (AD) Whorland (AD) Willed (A) Will Lose or Draw (SI) Wizard of Q (AD) Wolfman (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$39 95 \$39 95 \$39 95 \$4 95 \$4 95 \$54 95 \$55 95 \$55 95 \$55 95 \$57 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirval Pursuit N (SI) Tirvial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Top (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Video Title Shop (A)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$39 95 \$39 95 \$39 95 \$4 95 \$4 95 \$54 95 \$55 95 \$55 95 \$55 95 \$57 95
Thunder Cats (AA) Thunder Chopper (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Triesaure Island (AD) Trivial Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ultima 5 (AD) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) War Games Pack (SI) Warp Speed (A) Warrior (AA) Warship (SI) Warship (SI) Warship (SI) Wasteland (AD) Where in Europe I (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wilcard of Oz (AD) Wonder (AA) Wonder Boy (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$24 95 \$39 95 \$39 95 \$44 95 \$34 95 \$44 95 \$54 95 \$55 95
Thunder Cats (AA) Thunder Chopper (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Triesaure Island (AD) Trivial Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ultima 5 (AD) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) War Games Pack (SI) Warp Speed (A) Warrior (AA) Warship (SI) Warship (SI) Warship (SI) Wasteland (AD) Where in Europe I (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wilcard of Oz (AD) Wonder (AA) Wonder Boy (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$24 95 \$39 95 \$34 95 \$35 95
Thunder Cats (AA) Thunder Chopper (AA) Tom Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Triesaure Island (AD) Trivial Pursuit N (SI) Trivial Pursuit T. (SI) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ultima 5 (AD) Ultima 4 (AD) Ultima 5 (AD) Up Periscope (U) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) War Games Pack (SI) Warp Speed (A) Warrior (AA) Warship (SI) Warship (SI) Warship (SI) Wasteland (AD) Where in Europe I (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wilcard of Oz (AD) Wonder (AA) Wonder Boy (AA)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$24 95 \$39 95 \$34 95 \$35 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Maguic (AD) To Hell & Back (AA) Ton Sawyers Islan (AD) Top Fuel Challeng (AA) Top Gun (AA) Tirval Pursuit N (SI) Tirvial Pursuit T (SI) Typhoon (AS) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tutor 4 (SI) Ugly Duckling (AA) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Ware Steel (AA) Ware (AA) War Speed (A) Warrior (AA) Warship (SI) Wasteland (AD) Where in Europe I (ED) Where in Europe I (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Oz (AD) Wolfman (AA) Worder Boy (AA) Word Publisher (BU) Word Wirter 128 (B)	\$29 \$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$24 95 \$39 95 \$39 95 \$34 95 \$35 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Island (AD) Top Fuel Challeng (AA) Top Gun (AA) Tresaure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tuber 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 7 (AD) Wideo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Wardor (AA) Warr Games Pack (SI) Warship (SI) Warsteland (AD) Where in Europe 1 (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Qz (AD) Wolfman (AA) Wonder Boy (AA) Word Publisher (BU) Word Worder 128 (BI) Worden (AR) (BI)	\$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39.95 \$29.95 \$29.95 \$29.95 \$29.95 \$24.95 \$39.95 \$24.95 \$39.95 \$39.95 \$39.95 \$34.95 \$39.95 \$44.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Island (AD) Top Fuel Challeng (AA) Top Gun (AA) Tresaure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tuber 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 7 (AD) Wideo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Wardor (AA) Warr Games Pack (SI) Warship (SI) Warsteland (AD) Where in Europe 1 (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Qz (AD) Wolfman (AA) Wonder Boy (AA) Word Publisher (BU) Word Worder 128 (BI) Worden (AR) (BI)	\$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39.95 \$29.95 \$29.95 \$29.95 \$29.95 \$24.95 \$39.95 \$24.95 \$39.95 \$39.95 \$39.95 \$34.95 \$39.95 \$44.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$39.95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Island (AD) Top Fuel Challeng (AA) Top Gun (AA) Tresaure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tuber 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 7 (AD) Wideo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Wardor (AA) Warr Games Pack (SI) Warship (SI) Warsteland (AD) Where in Europe 1 (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Qz (AD) Wolfman (AA) Wonder Boy (AA) Word Publisher (BU) Word Worder 128 (BI) Worden (AR) (BI)	\$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$39 95 \$39 95 \$39 95 \$4 95 \$4 95 \$54 95 \$55 95 \$55 95 \$55 95 \$57 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Island (AD) Top Fuel Challeng (AA) Top Gun (AA) Treasure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon (AB) Ultima 4 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Wideo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Wardor (AA) War Games Pack (SI) Warship (SI) Warsteland (AD) Where in Europe I (ED) Whore rin Europe I (ED) Whore rin Europe I (ED) Word Typhisher (BU) Word Publisher (BU) Word Publisher (BU) Word Vollisher (BU) Word Vollisher (BU) Word Vollisher (BU) Word Vollisher (BU)	\$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39 95 \$29 95 \$29 95 \$29 95 \$29 95 \$24 95 \$39 95 \$39 95 \$39 95 \$39 95 \$4 95 \$4 95 \$54 95 \$55 95 \$55 95 \$55 95 \$57 95
Thunder Cats (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Thunder Chopper (AA) Time & Magic (AD) To Hell & Back (AA) Ton Sawyers Island (AD) Top Fuel Challeng (AA) Top Gun (AA) Tresaure Island (AD) Tri Pack (AA) Trivial Pursuit N (SI) Trivial Pursuit T (SI) Typhoon (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhoon of Steel (AA) Typhog Tuber 4 (SI) Ugly Duckling (AA) Ultima 5 (AD) Ultima 5 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 6 (AD) Ultima 7 (AD) Wideo Title Shop (A) Video Title Shop (A) Video Title Shop (A) Video Title Shop (A) Wardor (AA) Warr Games Pack (SI) Warship (SI) Warsteland (AD) Where in Europe 1 (ED) Who Framed Roger (AA) Win Lose or Draw (SI) Wizard of Qz (AD) Wolfman (AA) Wonder Boy (AA) Word Publisher (BU) Word Worder 128 (BI) Worden (AR) (BI)	\$29 \$29 \$29 \$29 \$44 \$44 \$29 \$29 \$29 \$29	95 95 95 95 95 95 95 95 95	\$39.95 \$29.95 \$29.95 \$29.95 \$29.95 \$24.95 \$39.95 \$24.95 \$39.95 \$39.95 \$39.95 \$34.95 \$39.95 \$44.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$34.95 \$39.95



IBM SOFTWARE

Deluxe Paint 2 Destroyer Double Dragon

MicroComputer Spot

TOLL FREE (008) 25 2130

MAIL ORDER



3D Helicopter Sim	(SI) \$64.95
4th & Inches	(SI) \$54.95
4th & Inches Airborne Ranger	(AA) \$59.95
Ancient Art of War	(SI) \$94.95
Ancient Art of War at Sea	
B24	
Balance of Power	
Rands Tale	(AD) \$64.95
Bards Tale	(AD) \$64.95
Build a Book	(ED) \$39.95
Calendar Creator Plus	(BU) \$94.95
California Games	(S) \$49.95
Chessmaster 2000	
Chuck Yeagers Flight Si	(SI) \$64.95
Colourme	(ED) \$59.95
Corruption	(AD) \$69.95
Defender of Crown	
Deluxe Paint 2	
Destroyer	(SI) \$49.95
Double Oragon	(AA) 674 OF

Fire Power	(AA) \$49 9
Flight Simulator 2	(U) \$114.9
Flippit	(SI) \$39.9
Galaxian	(AA) \$19.9
Galaxian	(S) \$49.9
Grand Slam Bridge	(SI) \$84.9
Guild of Thieves	
Gunshin	(\$1) \$79 0
Heroes of Lance Impossible Mission 2	(AD) \$54.9
Impossible Mission 2	(AA) \$49.9
Inside Trader	(AD) \$59 9
Inside Trader Into Eagles Nest	(AA) \$79.9
Jack Nicklaus Golf	(S) \$64.95
Keyboard Cadet	(ED) \$19.9
Kings Quest 1	(AD) \$54.95
Kings Quest 2	(AD) \$54.9
Kings Quest 3	(AD) \$54.95
Kings Quest 4 LA Crack Down	(AD) \$94.95
LA Crack Down	(AD) \$49.95
Labels Unlimited	(BU) \$94.95
Leisure Suit Larry	(AD) \$64.95
Leisure Suit Larry 2	(AD) \$64.95
Manhunter New York	
Maths Climbers	(ED) \$19.95
Maths Climbers	(ED) \$19.9

Mavis Beacon Teaches Typing	(ED) \$94.9
Mean 18	(5) /4.9
Metropolis	(AU) \$54.9
Might & Magic Mini Office Personal Mini Office Professional	(AD) \$79.9
Mini Utrice Personal	(H) \$129.9
Mini Office Professional	(BU) \$144.9
Night Raider	(SI) \$74.9
Numbers Up	(BU) \$129.9
Uff Road Racing	(AA) \$49 9
PC Gold Hits	(AA) \$49.9
Pegasus	(U) \$64.95
Pole Position	(AA) \$19.95
Pegasus Pole Position Police Quest 2	(AD) \$64.95
President is Missing	(AD) \$59.95
Print Power	(U) \$69.95
Print Power Print Shop	(11) \$109 95
Program Director	(11) \$84 9
PT 109	(ST) \$74 Q
PT 109 Questron 2 Rocket Ranger	(AD) \$54 95
Bocket Banner	(SI) \$70 QF
Serve & Volley	/C\ ec4 00
Silent Service	(SI) \$50 OF
Skate or Die	(C) CEA 06
Skyfox 2	(AA) \$64.93

Space Quest	(AD) \$54 95
Space Quest 2	
Star Command	(51) \$54.04
Starflight	(AD) \$74.95
Strike Force	(SI) \$24.95
Summer Games 2	
Summer Olympiad	(S) \$69.95
Summer Olympiad	(BU) \$259.95
Three Stooges	(AD) \$79.95
Thud Ridge	(SI) \$64.95
Typing Tutor 4	(FD) \$84 95
Última 4	
Ultima 5	(AD) \$59 95
Visions of Aftermath	(SI) \$59.95
Wargame Construction Kit	
Where in World is Carmen	
	(AD) \$59.95
Winter Games	(S) \$54.95
World Class Leader Board	
	(S) \$64.95
Your Personal Poet	(H) \$39.95
Zac McKracken	(AD) \$74 95



(AA) \$74.95 (AA) \$69.95

(A) \$109.95

Arcade Action Sport Adventure Home SI

Business Education ED ST Strategy Simulator

Utility Art & Graphics Music

PARHAMATTA
Shop 21a, Greenway Arcade, 35F Hunter Street,
222 Church Street, Westfield Shoppin,
Parramatta, NSW 2150
Phone 891 1170
HORNSBY
Westfield Shoppin,
Hornsby, NSW 207
Phone 477 898

CHATSWOOD Shop G9, Chatswood Place, Endeavour Street, Chatswood, NSW 2067 Phone 419 2333

Westfield Shoppingtown, Hornsby, NSW 2077 Phone 477 6886

185 Burwood Road, Burwood, NSW 2134 Phone 744 8809

HURSTVILLE 185E Forest Road, Hurstville, NSW 2220 Phone: 570 7333

PENRITH Shop 1, Carvan Arcade, 389 High Street, Penrith, NSW 2750

Phone (047) 32 3377 LIVERPOOL Shop 4, Westfield Shoppingt'n, Macquarie St, Liverpool, NSW 2170 Phone 601 7700

MAIL ORDER FORM

PHONE FOR LATEST NEW RELEASES

PRODUCT/PROGRAM NAME	COMPUTER	CASSETTE/DISK	QUANTITY	PRICE
	- A HWONE	THE WINDS		*

For Software only, add \$3.00 for post or \$10.00 for courier. For hardware, call to arrange.

Send to: Microcomputer Spot 13 Gibbes Street, Chatswood, NSW 2067

We will exercise all reasonable care in the processing of your orders but we accept no responsibility for orders, monies or orders but we accept no responsibility for orders, monies or products lost or delayed in transit. Your order will normally be processed within 48 hours, but please allow 14 working days for the fulfilment of orders. Telephone orders are, of course, welcome, but unfortunately. COD terms are not available. Wherever possible, please supply a phone number where contact can be made within normal working hours. PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT SEND CASH.

Method of payment, tick for Cheque ☐ Postal Order ☐ Tick for Bankcard ☐ Mastercard ☐ Visa ☐ AGC ☐

Credit Card No. Valid from

Name as per card

Until end

TOTAL

Ś

POSTAL CHARGE

\$

GRAND TOTAL

\$

For delivery

Name

Address

Postcode

Telephone ()

Date Sent

Signature of cardholder









Major features include

- Recognises presence of RAM expansion and automatically uses it in place of overlays and for the spell checker. Using the RAM expander, it permits sp ell-check as you type if desired. It will also expand a trigger word into a multi-line phrase, automatically.
- Permits two drive units (8 and 9) to be set up as drives 0 and 1 of a dual unit, for flexible file handling.
- Writes document files containing format information or unformatted ASCII files to disk in either true ASCII or Commodore ASCII.
- Automatic re-formatting of edit screen after addition or deletion of text.
 - Automatic table of contents.
 - Optional 50 line video preview.

(Nearly a full page per screen.)

- Four way scrolling in video preview.
- Selectable very fast scrolling and cursor movement in edit mode.
- Define the end of a range with a character, as well as by cursor movement. That is, if you want your range to end at the end of a sentence, just hit the full-stop key. The end of the marked range will advance to the end of the sentence. Any character can be used instead of the full-stop.
- Define, delete, move, sort and add columns.
- Page numbering in Arabic or Roman numerals.
- User definable characters for foreign languages and printer control.

Some deficiencies

- No on-screen help just some basic menus for a limited range of functio ns. An excellent manual with "Facts At Your Fingertips" style appendices makes up to a large extent.
- No command to move the cursor by the word, by the sentence or by the paragraph or to the start or end of present line.
- No delete word, delete to start of line, delete to end of line or delete to end of document.
- Slow to find the starting page of a print run, except for page 1.

Paperclip III was reviewed by Adam Rigby in the May '88 issue of ACR.

Review copy from ECP (075) 96 3488. RRP \$89.95.

See comparison table on page 40

Australian Commodore Review SUITE 64

Disk Magazine No 13

Double sided disk

- ★ Charles a huge graphics adventure with animation. You are Charles and must locate the missing computer and return it. Joystick control enables you to travel over 390 screens during five levels. It maintains high scores.
- ★ Stowaway a text adventure by Base Seven Software. You are a stowaway on a ship can you escape?
- ★ Blackjack Play the computer at this favourite card game. VCR Index - keep a file of all your favourite video cassette recordings, tapes or records.
- ★ Graphic Converter An invaluable utility that enables you to transfer clip art type graphics from Printshop, Printmaster, Stop Press and even future programs to other formats. You can also convert between various picture types such as Blazing Saddles, Koala Painter, Art Studio, Image System, Artist 64 and others.
- ★ Disk Diskassy This would have to be the best disk utility ever written for the C64. It's in full machine code and includes a BAM editor, Directory Editor, Sector Editor, Index Maker and Menu Creator. All are menu driven and very easy to use. Ideal for the programmer, hacker and hobbyist.

- ★ Disk Label Maker tired of boring old disk labels? Now you can print one or two sided labels complete with a directory of what's on the disk or customise your own entires to either an Epson FX or MPS801/803 printer.
- ★ Icon Changer (GEOS) Ever wished you could change your icon? This program will let you edit them to your own design.
- ★ Easy DOS A quick little program for obtaining a directory, scratching or unscratching files, renaming programs or changing your disk header.
- * Cruncher BASIC If your pushed for memory this program will in seven parcels compact your program as much as possible by compounding statements onto one line.
- ★ Calc A simplistic spreadsheet type program which is currently tape based but may be modified to save data to your disk drive.
- ★ Font Diskassy A character editor that also lets you create pictures by combining characters together.
- ★ Graphic Demonstrations A selection of pictures and music from hackers and artists around the world.

PLUS various other short utilities and fun programs.

Please send me issue 13 of Suite 64 @ \$12.95 □ Please send me issue 12 of Suite 64 @ \$12.95 □ Please send me issues 1-6 @ special price of \$49.95 □	Detach and send to Gareth Powell Publishing 21 Darley Road Randwick, 2031 Or Phone (02) 398 5111 with Bankcard Order
(For more information on back issues see our a	
Name	
Cheque ☐ Bankcard ☐ No.:	
Please add \$2 for postage and packaging and	

Sherlock Super Debtors

C128ers get down to business

hen Commodore released the long awaited replacement for the ever popular C64 in 1985, the C128 was an in-

stant success. They sold very well and in fact still remain the fastest selling computer in history notching up one million unit sales in less then twelve months

The sales to date on the Australian market have been in excess of 60,000 units, which is more than double the Amiga 500 base of about 28,000. This is quite a remarkable feat when you consider that for some time the C128D has been priced hundreds of dollars dearer than what would have been expected.

November saw the price of the C128D tumble to the same price as a C64 PROPAK, the bargain price of \$599.00. This pricing makes a very affordable 'Small Business' computer which can be used to run C64 software as well. In fact the C128 is five computers in one (C64 - 40 col, c128 - 40/80 col, C/PM - 40/80 col).

The problem to date has been the lack of software for the native 128 mode. The small business packages are either C64 programs converted to run in 80 column with very little if any improvements over the C64 version, or C/PM packages ported over to C128 that do not utilise the extra video ram or the RAM expansion modules available. Most if not all of the business software is not Australian written and does not always work the way you expect.

Small business products

I am pleased to announce one Australian company has taken up the challenge of producing a firstrate product to fill

this gap for the small business market. This Central Coast company, by the name of Sherlock & Watson, has developed a total system approach to the C128 by offering packages that are not only stand alone, (a package that is totally self-contained) but fully integratable with other Sherlock products.

the Aussie market is the Sherlock Open Item Debtors, or the Sherlock Super Debtors as it is commonly known.

One of the first features I found to be impressive and unique is the way in which the program takes full advantage of the extra video ram in the C128. The programmer has placed a Diary function and a Pop-up Calculator in this unused part of memory. At any point in the program simply press the help key or linefeed key and instantaneously these functions appear.

This calculator is truly a delight to use, pressing the wrong key sequence will sound an audible dull tone whilst the correct key strokes make a digital type sound. I feel this is a marvelous feature, one that will be used on a daily

When the Debtors program prompts for a batch total or you are trying to deduct 10% discount from an amount, simply press the Linefeed key and instantly your calculator appears. Enter the data you wish totalled or discounted, then press Linefeed again and you are instantly returned to the exact screen position without loss of data, a totally invisible function.

Memopad

To access the Memopad function simply press the HELP key and the

memopad appears. Type your note, telephone number or message and press HELP to return to the exact screen location before you entered this function. To redisplay your information press HELP key again - enter new information or re-read your recorded notes!

The Sherlock Debtors Program has The first product to be released on taken full advantage of the ability of the C128 to be expanded to 640k by the addition of the 1750 RAM expansion or 256k by addition of the 1700 RAM expansion. If these expanders are installed when the Debtors is autobooted, the program will detect the existence of these devices and load both parts of the Debtors into memory. This function is totally automatic, and is commonly known as 'AUTO CONFIGURATION'. If RAM is not available the main Debtors program is loaded in and begins execution.

> Most day to day functions are contained in the debtors main program and end of month functions and some reports are in the debtors report program. What the RAM expansions mean to you the operator, is that to load from one program to other without the RAM takes 9 seconds, but with the RAM load times are reduced to one fiftieth of a second that's pretty damn fast - almost instantaneous.

Copier

The writers of the Sherlock Debtors have also placed on the Debtors disk a RAM copier. Depending on which RAM expansion device is used, a C128 double sided disk can be copied in either one or two passes, by copying the entire disk into external RAM and then placing on your backup disk a 100% copy of the original using both burst read and write commands. This feature alone makes buying the RAM expansion worth while. See our April edition for the full source listing which Sherlock & Watson has supplied us for publication.

The second advantage of the RAM units is the ability of the Sherlock range of programs to 'co-exist' in external memory. That's right, a type of multitasking, so to speak. You can load the Debtors programs into memory and then load the Sherlock General Ledger into memory by selecting the General Ledger option from the menu. Once loaded you can remove your General Ledger program disk and in fact remove the Debtors program disk and all the software is RAM resident. The switching between programs in memory is totally transparent to the operator. I have never seen the extra RAM used this way before and I believe this to be a world first.

Features

It's difficult to detail all the features of this package, but I will attempt to explain which options may interest the average user.

The Sherlock Debtors is aimed at the home business person, or indeed any company that wishes to keep track of money owed to them by their debtors (Accounts Payable). Simply 'post' (enter) the amounts oweing to the correct account number, the date of the transaction and the program will track or record away this information.

The Sherlock Debtors can be either an Open Item Debtors or a Brought Forward Debtors. I feel some explanation is needed here for the amateurs. An Open Item System is where cash receipts can be applied by invoice number or automatically applied to the oldest balances, where as in a Brought Forward System the cash receipts are applied to the oldest outstanding GROSS amount.

In lay person terms, an Open Item

System is where each individual invoice, payment etc. is recorded and printed on the statement at the end of each month so individual payments can be made to selected invoices. If an invoice is in dispute it will remain on the statement until paid out in full or credited.

A Brought Forward System only brings forward a B/Fwd balance, or in other words the details on the statement are totalled together to have a combined balance or Brought Forward Balance.

The Sherlock Debtors has both systems resident and the operator simply selects which system they wish to use at the time. Whew, that was a mouthfull and I promise not to get that technical again.

The program has built in features that not everybody may require, so it is simple manner of Y/N to enable or disable functions not needed. The program can also create its own custom disks configured differently for use with multiple company names.

Reporting facilities

An underlying strength of this package is its reporting or enquiry facilities. These reports can be directed to Screen or Printer. Some of these printed reports are an ANALYSED TRIAL BALANCE, STATEMENTS, CUSTOMER REPORTS (add, change, SALES TAX REPORTS, delete), SALES DISSECTION REPORTS, MONTH END AND YEAR PURGE REPORTS plus it has a label printer and letter writing function resident. It can create batch files (selected groups of customers) that can be used for letter writing, address labels. Another unique feature is that of an EXPORT function to output client data for use with a database or wordprocessor for mail merge or some similiar function.

The Super Debtors has a POINT OF SALE module resident for producing

on preprinted invoice forms details of the transaction entered. Account number one defaults to your Cash Sales Account to expedite data entry. This part of the program can be used as a stand alone system for retail sales or for sending out invoices at the completion of the day or week for a small business. For account customers select their account number, enter details on the invoice and this information will be transferred to their statement

The P.O.System also contains an 'Item Description' file which can be edited by the operator using a commercial wordprocessor. Simply create or edit this file to enter the names of up to 100 of the most common items you sell or the services you offer. When prompted in the P.O.S. for the description of the goods simply press decimal point (.) and a number between 1-100 and the item description will appear instantly. Saves a lot of typing if you sell similiar products on a regular basis. Apparently the Sherlock Stock & Sales System which is separate program goes one step further by entering the price in the Unit/Price field as well. (This program has not yet been released at this time, March 1989, but will probably be released in August).

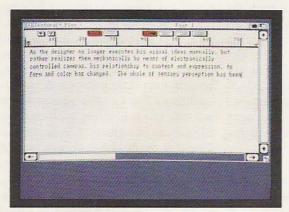
The Sales Dissection System allows the operator to further 'analyse' sales by entering an S/D number between 1-20 and the sale value will be added to the appropriate S/D account. At the end of each month a report can be printed which shows the value attributed to each department. When the report is printed you have the option of clearing these totals. You can look at these figures and compare them to year to-date figures which are also printed on this report.

Speed

The Sherlock Debtors is not only value-packed in its list of operator features and reports, but also addresses the

(continued on page 44)

We invite all Textcraft owners to take this screen test.



Textcraft

- Supports NTSC.
- One Font.

No other wordprocessor gives you the kind of performance you get from KindWords. TM

Only KindWords gives you features like the 100,000 word Collins British Spelling Corrector and thesaurus, multiple font sizes and styles, colour graphics incorporated in text, and the new 1.3 printer drivers, for higher quality print outs.

On the screen, KindWords looks like Textcraft, so you won't have to spend time learning how to use it. What's more, your Textcraft documents are instantly converted into KindWords files, with all the formatting intact.

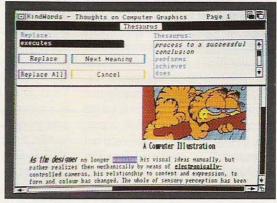
Best of all, now you can own KindWords at a substantial savings. Just send us the front cover of your Textcraft manual, or the cover of any wordprocessor manual, along with \$75.00. We'll send you a new copy of KindWords, and save you \$75.00 on the regular price.

With an offer like that, why not put KindWords to the test yourself? If you think we look good on paper, just wait until you see us on the big screen.

KindWords

KindWords is a registered trademark of The Disc Company, Inc.

Amiga, Textcraft and Textcraft Plus are all trademarks of Commodore International, Ltd.



KindWords

- Full Screen View (PAL Support)
- Multiple Font Sizes and Styles
- 100,000 Word Collins British Spelling Corrector
- 470,000 Synonym Thesaurus
- Colour Graphics in Text
- Automatic Hyphenation
- High Quality Output with 1.3 Printer Drivers
- Easy-To-Use and Learn

C	0	U	P	0	N
\$150. Ple the front	ease send a	on KindWor me a comple wordproces ich includes	ete Kind\ sor man	Words. I ar ual along w	n enclosing vith my
Name					The same of the same of
Address_					
Sub					
State				2 1	
Postcode				3	
Phone					
		a cheque fo a Mast			
Card					
Number	Month Ye Expiration Da		-		
	THE TO	Company	- Wordli	ne	
Send to:	The Disc				
	P.O. Box			1. P. L.	

speed problem often associated with disk-based business packages. You would have to see this package in operation to appreciate the phenomenal speed with which it accesses data. Commodore in its wisdom installed 'intelligence' inside the disk drives of their equipment. In fact the drives are programmable and have a command set of their own called the 'U' command set. They allow a programmer to write and read data with out using sequential or relative files. The most popular file structure used on most computers.

These file structures are efficient for most day to day data recording but are slow and tedious for fast data access. Due to the nature of a sequential file you would have to read the file, in total to find the matching data, and a relative file is also slow due to the DOS having read the directory track for the side sectors to where the data is recorded. This time delay will vary depending on which side of disk you are reading data at the time. There is a very efficient way called 'u1 and u2' BLOCKREAD and BLOCKWRITE. The Super Debtors allocates data to blocks on the disk as required. As a customer grows, more blocks will be allocated to store transactional information. The maximum details you can store on an individual debtor is 492. In other words 20 pages of statements for one debtor.

When at the end of each month a 'PURGE' is performed the 'CLEARED' details will be removed from the debtor's statement and these allocated blocks will be returned to DOS for allocation to another debtor if required. This is a very effecient method of storing data as debtors whose accounts have no details recorded against them only require one block on the disk, this records the NAME, ADDRESSES, POSTCODE, PHONE etc. and 90, 60, 30 and Current Balances.

When the Debtors Program or Debtors Data Disk is first loaded it reads the INDEXFILE which contains the pointers to the data on the disk. After this file has been loaded the program can directly position itself to Debtor DATA with-out having to rely on the DOS to find it. There is no faster way to access data and this programming technique is a carry over from main frame programming before DOS became so popular.

The Super Debtors contains all the interfaces for input of data directly to the soon to be released Sherlock General Ledger. A customer using the Debtors as stand-alone program could at a latter stage buy the General Ledger, and enable the G/Ledger option in the Debtors and full intergration would be possible. As part of the normal 'UPDATE' in the Debtors, simply insert the General Ledger Data Disk when prompted and the G/Ledger will be updated also. When this has been achieved, insert the Debtors disk and you are back to using the debtors as per normal.

Conclusion

In summary I found the Sherlock Super Debtors easy and simple to use, flawless in operation, amazingly fast, simply to use and very reasonably priced at \$199.00 plus \$8.50 postage and packing. The program comes packed with a work disk capable of only creating 20 debtors and a very well documented 72 page manual which guides the novice through customer creation to explaining what an 'UPDATE' and a 'PURGE' is. The disk supplied can be used as a training disk before your SYSTEM disk is sent to you after the registration card is returned. It is recommended that you create a few customers and use all the options available in the program.

The registration card requires your company name or the trading name you wish printed on your statements. The Sherlock Super Debtors is not copy protected, but the trading name of the company is encrypted on the SYSTEM disk. Each data disk created will contain this encrypted information. At any time the user can alter addresses or phone numbers etc. but not the trade name. A standard Super Debtors disk with programs and data can hold information on about 275 debtors and details. A Super Debtors Data Disk can hold information on 500 debtors and details. (there is no limit to the amount of data disks in use).

The current version has been running in the field for twelve months as a stand alone package until the Sherlock General Ledger was completed. It is currently undergoing field testing and final documentation. The total packages when complete will be the Sherlock Super Debtors, the Sherlock Super Creditors, the Sherlock General Ledger, the Sherlock Stock & Sales System and the Sherlock Fuel Invoicing Module.

Lastly one of most important features is that the stationary for statements is the same as the M64 system. So customers upgrading to the Sherlock Super Debtors can continue with the same stationery.

The statements are available from your nearest REDIFORM distributor boxed in lots of 1000 x (R103/HAR STATEMENTS) or from your MICROFORM distributor Re-order No.(2/9771). The Point of Sale invoices are available from MICROFORM Re-order No.(2/9530).

For further information call (043) 244-929, RRP \$199.00 plus \$8.50 postage and packing. Send to:

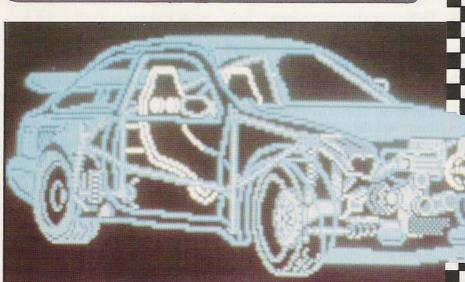
Sherlock & Watson 15 Fisher Rd Point Clare NSW 2250

The Sherlock Super Creditors System will be reviewed in our May issue.





See the driver steer and change smoothly through each of the gears

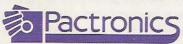


The BEST driving simulator ever realised for the Amiga.

You don't need a 'TEST DRIVE'!
You can become a fully fledged rally driver!

Complete the five stages (each consisting of three race segments) to qualify for the full FIFTEEN STAGE rally. Any damage incurred must be repaired as, just like a real car, any and all damage affects the performance and drivability of your 300 b.h.p. FORD Sierra Cosworth.

Available from: Microcomputer Spot, Grace Bros (selected stores), Actcom Computer Centre Belconnen, A.C.T. Harvey Norman (selected stores), Myer, Westend Computer (Qld, Vic), Clayfield Computers Qld, Computech Braddon A.C.T. and leading computer retailers throughout Australia.



Best quality, best price and best service -insist on products from Pactronics
"the user-friendly company".

N.S.W. Pactronics Pty Ltd, 33-35 Alleyne Street, Chatswood. (02) 407 0261
VICTORIA: Pactronics Pty Ltd, 51-55 Johnston Street, Fitzroy. (03) 419 4644
QUEENSLAND: Pactronics Pty Ltd, 12 Stratton St, Newstead, 4006. (07) 854 1982
SOUTH AUSTRALIA: Baringa Pty Ltd, (08) 271 1066 ext. 6132
WESTERN AUSTRALIA: Pactronics, Unit 13, 113 High Rd, Willeton 6155. (09) 354 1122



Drive down the twisty lanes at night with an incredible 3D view of the road



Use all your powers of concentration to negotiate the mountain range.

TextEd V3.0

by Eric Holroyd

ere's a full-blown professional text editor which I found quite easy to learn and use. It's an all-Australian product and comes nicely packaged with a single non copy-protected disk (so it's easy to install it on a hard drive if you have one), a comprehensive manual and a cheatsheet/ overlay showing the most-used commands.

The main uses for a text editor such as this one would be in program writing and making general text files such as instruction or "doc" files. TextEd is not really meant to be a word processor yet I've found it very handy to use as one for making doc files, as it has many features I like in good word processing software.

It has an "insert" mode for example, whereby the text opens up to let you type in the middle of a sentence, and in this mode the DEL key performs a "gobble" delete at the cursor. Simply hold down DEL until the text you want deleted has been gobbled up then start re-

Before using TextEd for the first time you're urged to make a working copy and do the necessary program "installation" using that disk. There are several text files on the TextEd disk, all with a nice icon which "calls" TextEd to display the text on screen and at the same time get you straight into the working environment.

When a file is saved from TextEd it's automatically provided with one of these icons and I particularly liked this feature. Of course, if you're making a doc-file on a PD disk for general distribution you'd have to change the icon's instruction to call another text file displayer such as "Less" by using the "info" command on your WorkBench.

TextEd must not be included on such a doc-file as it as a copyrighted program. As I say, I found it very handy to use in this way and I can see it getting a lot of use in my future sessions.

Data entry modes

I've already mentioned Insert Mode and there are other Data Entry Modes too, such as XCH which simply lets you overstrike (or exchange) existing text. The F1 key toggles between this and IN-Sert mode. Then there's STI, or STatic Insert whereby the cursor stays still and characters are inserted to the right of it.

For editing vertically (handy if you're doing columnar work) there's VRT or VeRTical insert where the cursor moves up and down. Another useful mode is SPX or SPecial eXchange in which you may overwrite characters already on screen with control or other special characters

After a character has been overwritten the text cursor moves one space right. SPI, or SPecial Insert, is similar except all the characters move one space right when you insert a control or special character. These control characters include Return, Escape, Backspace, Tab, Del, and any character pressed in conjunction with the CTRL or ALT keys.

key's function in INS mode and in XCH mode - it replaces the character under the cursor with a space.

The backspace key in INS mode performs a "drag" delete whilst in XCH it moves left, replacing characters with spaces and in VRT mode it moves up doing the same thing.

I won't go through all the functions of the various keys in the various modes (it would take the whole magazine to ful-

ly explain everything and that's not the idea of a review anyway) but I've outlined those ones to illustrate that I think the programmers have done a good job in working it all out and making it userfriendly as well as functional.

Moving around

Moving around the screen is a breeze with the arrow keys and various key combinations. For instance the Up-arrow moves the cursor up one line, combined with Shift it moves up a half-page. Combined with ALT it moves up a full page, with SHIFT/ALT it goes to the top of the document, and with CTRL it goes to the start of a marked block.

The other arrow keys have a similar range of functions, as do the Function keys themselves. F-Keys cover named functions from 1 to 60 with the first ten being the normal F-keys. 11 - 20 are in conjunction with SHIFT, 21 - 30 in conjunction with ALT, 31 - 40 with SHIFT/ ALT, 41 - 50 with CTRL and 51 - 60 with CTRL/ALT.

These last ten are programmable to your own requirements with a program on the disk known as PFKeys so that you may customize your TextEd to your own needs.

A wide variety of custom parameters As I've already mentioned, the DEL may also be saved to your disk so that your printer type, screen colours etc come up right every session and the Set-ScreenColor section is a nice little program in its own right too. Printing of your TextEd file is available with a range of options such as page and line numbering, time and date tags at the start and end of your printout, printer reset after printing, and you may print all or any section of your file.

Block functions are many and varied

too. Cut, copy, append, move, sort, print etc as well as import and export of blocks of text. Overlaying, duplicating and aligning of text blocks are available too, and all done with the F-Keys.

Search

Searching and replacing of text is well-covered with several options here. You may set the direction of the search, either forward or back, as well as setting the case to either Sensitive or Insensitive. There's an AUTOREPLACE feature too, on F-Key 16, which finds and replaces automatically all occurrences of a search string with a replace string.

If you've used this and replaced too many strings and want to put one or two back to the original string you can use EXCHANGESTRINGS to undo an AUTOREPLACE. This could be very useful if you thought you were autoreplacing a marked block and had forgotten to mark the block for instance.

The text buffer may be modified in umpteen different ways too. Case may be changed with FLIPCASE, a pair of characters may be changed with SWAPCHARS (the character beneath the cursor is exchanged with that to it's right) and lines may be joined or duplicated with JOINLINES and DUPELINES.

Several different types of delete and undo may be performed via the function keys as well, and I couldn't think of anything that had been left out or that I would have liked to have seen included. There's certainly plenty of meat here for a hard core user to get his/her teeth into and I'll leave it up to you to find out the rest for yourself.

Personally I think this is a very good piece of software which deserves a place in every serious Amiga user's disk box. It's certainly found a place in mine.

Review copy by courtesy Computermate. (02) 457 8118. RRP \$39.95

MEGADISC

for the **AMIGA**INFORMATION AND ENTERTAINMENT LEARN HOW TO REALLY USE YOUR **AMIGA**

9

MEGADISC 10 available mid March

Disk-Magazine Issues available

ASK FOR THE FREE CATALOGUE - ON - DISK

ALL issues of MEGADISC contain the information you need to make the most of your Amiga. Designed to be easy to use, all you have to know is how to click on the mouse buttons. Every issue is packed with original, not second-hand, information - articles, tutorials, reviews, free utilities, illustrations, where and how to get the hardware and software you need, along with the latest updates locally and overseas. With MEGADISC, you learn as you use, and you'll like learning. MEGADISC explains from the beginning, and entertains to the end!

Special offer!

Order MEGADISC 1-9, Catalogue-on-disk and

3 free Public Domain Disks for \$125! (You can order your 3 PD disks later.)

BEGINNER'S PACK - 3 DISK SET

containing:

Best of MEGADISC, Best of PD Utilities, Best of Graphics and Games, in special disk box for \$29

MEGADOS

AmigaDos Manual-on-disk, with all you need to know about CLI, Workbench, 1.2, 1.3 and ARP and much more \$19.95

Price for current subscribers \$13.95

500 PUBLIC DOMAIN DISKS FOR \$5.50 each

All these disks are fully described on the free Catalogue-on-Disk PD 10-Pack (10 selected PD disks in handy plastic box) \$60 GET OUR 'GAMES PACK' - 8 Disks full of Games - \$40 3 Disk Animation Set \$15 - AntiVirus Disk \$5.50 WE DO NOT CHARGE FOR POST AND PACKAGING

WE ALSO TAKE BANKCARD AND MASTERCARD ORDERS BY PHONE You can also send us a FAX

PLEASE ENQUIRE ABOUT OUR DESKTOP PUBLISHING SERVICE

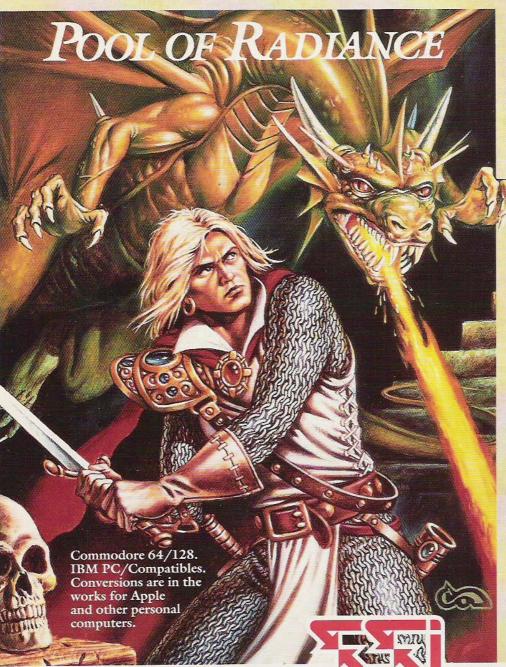
No		or please charge my BankCard/MasterC	ard
ANY 6 issues of ANY 3 issues of	Catalogue-on-Disk AT N MEGADISC for \$90 (plea MEGADISC for \$50 (plea MEGADISC for \$125:	O COST:se specify):se specify):se	
OR please send 8-DISK GAMES BEGINNER'S PA MEGADOS AMIGA 3 DISK ANIMATI Signature:	your Catalogue-on-Disk n PACK for \$40: ICK (3 DISK SET for \$29) IN DOS MANUAL-ON-DISK FOR	f a 3-issue sub) are:	
Name: Address:		*	
Postcode:	Telephone:	Date	

Send to: MEGADISC, P O BOX 759, Crows Nest 2065. Telephone: (02) 959 3692 (all hours) FAX: (02) 959 3525

Prepare for the ultimate fantasy when the first official Advance

Dungeons Tagons

Game Product comes alive on your computer!



POOL OF RADIANCE, the culmination of its collaboration with TSR to bring the legendary ADVANCED DUNGEONS & DRAGONS® fantasy role-playing system to your home computer.

POOL OF RADIANCE is set in the huge, complex world of the Forgotten Realms, a world brought to life by the combined talents and skills of top designers and programmers from both companies. Its game system adheres faithfully to AD&D® standards. Its state-of-the-art graphics push the very limits of the computer's capabilities. The only way to believe it is to experience it for yourself — wherever game software is sold.

Look for the entire line of AD&D computer products coming soon from SSI.



Roll up your characters and see their portraits and characteristics. (C-64/128 screen display.)



Every single monster type is individually drawn by superb computer graphics. (IBM PC screen display.)

Distributed in Australasia by:

Entertainment & Computer Products Pty. Ltd. (ECP) 4/18 Lawrence Drive, Nerang, Gold Coast 4211 Qld. Telephone (075) 96 3488



©1988 TSR, Inc. ©1988 Strategic Simulations, Inc. All rights reserved.

About Slowmemlast/Ram On Off & Nofastmem

by Tim Strachan

HIS IS a brief and simplified explanation of why these programs exist and what the memory situation is on the various Amigas (as far as I can find out!).

The A1000 situation 512K of internal "chip memory", accessible by both the CPU (Central Processing Unit, ie the 68000) and the Custom Chip Set (the 3 co-processors, Paula, Agnes & Denise); 8 megabytes of "fast" or "expansion" memory could then be added which is accessible only by the 68000. On power-up some of the chip memory would be taken for system functions, and the rest put into a "free memory list" for other functions. Then expansion memory would be looked for, and if found, linked into the memory free list as fast memory. The only problem with all this is that precious chip memory is used where fast memory would do just as well. Chip memory is precious because it is required for the functions of the custom chip set, such as Intuition screens, graphics, etc, and can soon start running low.

THE A500/2000 SITUATION Due to the problem above, "slow memory" was added, being 512K more RAM (built into the A2000 and available as the A501 Ram/clock module on the A500), which maps in at the top of memory. This memory is checked before chip memory at power-up, and if found is used for the "supervisor stack" and other system functions, thus freeing up some chip memory. The remaining slow memory is added to the free memory list, and henceforward treated like normal expansion or fast memory. The only problem is that "slow memory" isn't real fast, because it is subject to "cycle stealing" by the Custom Chip Set while, for example, high resolution is being handled, even though this memory can't be accessed by the Custom chips. The upshot is that programs which use high resolution and/or lots of colours will run more slowly in 1-meg 500s and 2000s than in a system with real fast memory.

So, NOFASTMEM (or RAM ON/OFF) solves the problem of some early programs which assumed that all available memory was chip memory (and consequently screwed up when there was any extra memory) by allocating any non-chip memory, ie effectively removing it. However, check out the NOVIRUS utility on Megadisc by Nic Wilson, which incorporates two other utilities called SYS and NOTSYS for adding or removing memory via a modification to the Boot Blocks of ANY disk.

If you've got slow memory, it will tend to be used before real fast memory - so run the program SLOWMEMLAST or FASTMEMFIRST (preferably in your startup-sequence BE-FORE "BINDDRIV-ERS") and it will be used after real fast memory - see also the note at the end of the "FastFileSystem" article in this issue.

ARTSCAPE

NEW FOR AMIGA MARCH, 1989 COMPLETE GUIDE

THE ULTIMATE GUIDE TO THE MOST AMAZING & USEFUL PAINT PROGRAM OF THEM ALL. Over 30 easy to follow tutorial screens that will assist you in all aspects of Deluxe Paint II, as well as 50 priceless hints & tips.

SCENES OBJECTS FOR

SCULPT ANIMATE

AMAZING CREATIONS READY TO GENERATE, OR USE IN YOUR OWN SCENES. SUITABLE FOR SCULPT 3D OR SCULPT

ANIMATE 3D. Disk contains a complete chess set, a 3D and 2D alphabet, 50 hints and tips, plus lots of complex scenes and odjects.

AUSTRALIAN ADULT DISK MAGAZINE. Regular features include: DigiFold (Hot girl of the month). MiniStrip, HotIcons, Stories and more!

OTHER PRODUCTS & SERVICES

ARTSCAPE offers the Amiga user

- Personalized Tutorials Digitization Service
- DeskTop Publishing -Full Art Preparation

Please rush me the following products: HOTDISK 1,2,3 Single issue.....\$20. No:

Six issue subscription.....\$100. ARTDISK 1,2: ClipArt & tutorial\$20. No:.

Complete Guide to DELUXE PAINT II .\$25.

Scenes & Objects for SCULPT 3D.....\$25. Name

Address

Postcode

Day Phone ()

Signature

Bankcard No:

Expiry date

ARTSCAPE STUDIOS (02)977-1829 P.O BOX 751, MANLY, NSW. 2095

The new Fast File System

by Tim Strachan

F YOU have any hard disk on any Amiga, it's worth using the new FastFileSystem (FFS from now on), mainly for speed. Any hard disk with a controller which has the two specified "AutoBoot ROMs" will be able to autoboot off the hard disk, without a boot disk at all - Commodore's new A2090A hard disk/SCSI controller card for the A2000 is such a beast, and other third party manufacturers have made or will make similar modifications. Note that this will only be possible if you are running the 1.3 Kickstart. The FFS itself however will work fine on 1.2 Kickstart without the autoboot facility.

Some technical info

(Quoted more or less from a technical doc)

Fast Filing System was based on the original file system provided by Amiga-DOS. This resulted in a high level of compatibility that allowed application programs and the standard DOS commands to function under FFS without any changes required. FFS was completely re-written in assembler and many of the algorithms were completely revised to provide much faster response for internal processing. FFS now spends MUCH more time waiting for I/O or DOS packets instead of spending all its time figuring out what to do. For a task that runs at a high priority on a multi-tasking machine this has real benefits.

Although there have been many minor re-arrangements of the disk format, the only major incompatibility with the old filesystem concerns the data blocks. Under the old system, data blocks consisted of 24 bytes of header information followed by 488 bytes of user data. This means the old system has no option but to read data from the drive one block at a

time. Since most hard drives use DMA to transfer data from the disk to memory, this is really inefficient and does not use the hardware to its full potential.

FFS stores nothing but data in the data blocks. When possible, data blocks are allocated consecutively so large reads and writes can be performed in one operation. Even though the old filesystem uses this allocation technique, most gains are lost because it must make separate I/O requests for each block. In addition to this, the old filesystem uses cache buffers for both data and header blocks, while FFS only caches headers and partial data block transfers. Large reads and writes that are multiples of 512 and positioned at an even address are transferred directly to or from the user buffer. This is possible because there is no extraneous information to be stripped from the data.

It is worth noting that a side effect of the new data format is a 4.9% increase in the amount of data that can be stored on a given disk, amounting to about 50K per Megabyte extra.

Backwards software compatibility is good - only some old DiskSalvage programs would have problems, but DISK-DOCTOR on 1.3 and the new DISK-SALV program by Dave Haynie in the public domain recognise the new format.

How to install FFS on your hard disk

Before you start playing around with your hard drive, make sure you've backed it up! No-one with a hard disk needs to be told this, I guess, but it's always worth repeating (speaking from experience, sob!).

It's much easier if you can keep any partitions as they are. The A2090 must have the first partition as a normal file system device, but further partitions may

be FFS. Other drives, such as those that use the X1000 SCSI interface by Expansion Systems, can be totally given over to FFS. You'll have to add three lines to your DEVS/MOUNTLIST entries for each drive or partition. These are:

FileSystem = L:FastFileSystem GlobVec = 1 DosType =0x444f5301

Below are the entries for two hard disks, DH0: being a 10-Megabyte drive (HIGHCYL 305) and a 20-Megabyte drive (HIGHCYL 611).

#
dh0:
Device = X1000.device
Unit = 1
Flags = 0
Surfaces = 4
BlocksPerTrack = 17
Reserved = 2
Interleave = 0
LowCyl = 0;
HighCyl = 305
Buffers = 20
StackSize = 4000
GlobVec = 1
FileSystem = L:FastFileSystem
DosType = 0x4444f5301

dh1:
Device = X1000.device
Unit = 2
Flags = 0
Surfaces = 4
BlocksPerTrack = 17
Reserved = 2
Interleave = 0
LowCyl = 0;
HighCyl = 611
Buffers = 20
StackSize = 4000
GlobVec = 1
FileSystem = L:FastFileSystem

DosType =0x444f5301

Note the HASH (#) mark which separates every entry in a Mountlist. Now, you need to FORMAT your drive(s) to suit the FFS -

FORMAT DRIVE DHO: NAME DHO

Note also the absence of a colon after the second DH0, since we're only giving it a name (which could be anything), not referring to a physical device. Having formatted your hard disk, it is a matter then of backing up to it, after editing your Startup-sequence to MOUNT DH0: (after the BINDDRIVERS command) or whatever is the name of your drive.

RAD and FFS

You cannot boot from the Recoverable Ram Disk if you're using the Fast-FileSystem, although you can use it as a RRD, provided you change the BOOT-PRI entry in the ramdrive device (RAD:) mountlist to -129, which tells the system that the RAD: device is not bootable. However, you could set up a small partition on your hard disk which is not FFS, and set up your system so that you reboot from RAD:, transferring control to the first non-FFS partition.

A2000 and fast and slow Ram

There is a way round the problem the A2000 seems to have with "slow memory", ie, the second half-megabyte of Ram, which is very slow, even with a hard disk. The solution is to set up your startup-sequence with the following commands in the order shown:

Setpatch Slowmemlast or Fastmemfirst Binddrivers

The two last lines are the important ones, making your system use fast Ram (ie expansion ram) before the slow ram or the chip ram.

Amiga-Live!

There's some things that are better left unprinted, at least, in a paper magazine. And there's some things you just can't put in a paper magazine, like a working program, or animated picture.

But, you will find all this and more on Amiga-Live!

A bi-monthly magazine on a disk. Two disks are included. The first contains editorial set out in screens to look like magazine pages. The second disk is full of the BEST recent public domain programs - only we've added better icons, and made sure that if it is runnable from the WORKBENCH, you can do just that.

All the programs included

All the programs included come with printed documentation. There are no READ.ME files to look for, just hard copy ready to file away, and refer to when you need it. Amiga-Live!'s programs disk is a good way to collect quality software quickly, and cheaply, if you prefer not to sift through the many Fish Disks looking for those programs that interest you. On our disk, we only put the cream of the rest.

Features of Issue Two - Summer Fun Edition

- Amoeba Classic arcade copy of Space Invaders
- Backgammon Strategy one player versus computer game.
- Moose Mac owners eat your heart out! This comical little character is now at home on the Amiga.
- Amibug Watch him walk across the screen just when you least expect it
- Uedit Word processing on the cheap! Lots of features edit 100 documents at a time.
- Browser Looking around your disks is easy with this neat utility.
- Dir Master Keep track of what programs you have on which disk.
- Undelete Retrieve accidentally erased files.
- Memo Pad A reminder program to keep track of your appointments.
- Editorial Software piracy what are the companies really doing about it. Software support - is Australia getting a raw deal.

Amiga-Live! is produced by the editors and contributors to The Australian Commodore and Amiga Review, so you can be assured of the quality. (It's getting better every issue.)

You can order directly over the phone by VISA, Mastercard or Bankcard or send a cheque or money order . . . or we'll do a COD (\$3.60 extra!).

CALL (02) 817 0011 to place an order, or write to:

PRIME ARTIFAX, 23 Bonnefin Road, Hunters Hill 2110

Name	man distriction for the second 2011 and
Address	
Pos	stcodeDay Ph
Bankcard Mastercard	Cheque ☐ Moneyorder ☐ Expiry date
1 2 2 2 1 1 1 0	de. After setactifig the text option, denot ten to the attributes bow and there—which
	COMPANY STORY THE WAY SOME THE WAY OF COMPANY
Issue # at \$24.95	6 months subscription \$119.00 🗆

128 Corner - geoPublish Part 2

by Harry Waterworth

In last month's edition, we looked at desktop publishing in general, and had an introductory look at Berkeley's program geoPublish. This month, we will run through the procedures involved in laying out and printing a typical geoPublish newslatter.

It's a good idea to sketch out with pen and paper a rough layout of your proposed newsletter. This step will make the overall task much easier and help you to get better looking and more professional results. The small amount of time involved here will prove to be time well spent indeed.

The start - master pages

Having decided on the basic layout you desire, the first thing to do is to enter master page mode. Assuming you are preparing a newsletter that you will be printing regularly, you use master page to lay out the text, borders etc that you will use with each and every edition. This is then saved to the master page library, and is available for you each time you wish to create your newsletter. Sure beats the heck out of having to start from square one every time you wish to get out a copy of your newsletter.

In the example newsletter shown see page 54), the outside border, the "128 Corner" headline banners, the "Australian Commodore and Amiga Review" side banner and the dividing borders for the headline and side banners would all be saved to the master page layout library.

Headline banners and large subheadings are done using the Text option which is available in both the master pages mode as well as the page graphics mode. After selecting the text option, you go to the attributes box and there you set the style of print you desire. Once into the attributes box, the choices available are almost endless. You can choose font sizes ranging from 4 point to 192 point; bold or plain text, outlined, underlined or italicised or all of these features combined. And hey! it's all done with the click of the mouse button. No keyboard commands or other complicated procedures involved, so with all you budding publishers out there, I guess it's time for the Rupert Murdochs of this world to start worrying.

I selected Harmon font for both the headline (60 point bold) and sideline (20 point bold) banners, and the text was positioned using the toolbox in master page mode. Once you have dropped your text into the document, you use the attributes box to position it in the exact location required by the use of the pointing tool. Correct spacing is obtained by changing the font size till it fits just right. Who said editors have a hard life; if they do I guess they just don't own a desktop publisher.

Master pages is also the section in which you set up the guidelines that will assist you place your text in the columns later on in the proceedings. Although the guidelines appear "on screen" they do not appear in your final printout. Having set the guidelines for the two text columns in my newsletter, it was time to go to the next part of the operation:-

Page layout

The three articles that appear in the example layout are simply three separate *geoWrite* files that I prepared for use in this demo.

Placing the article in the column is done by way of the page layout toolbox, ment" tool. The dialogue box for which is different from the toolbox that appears in both master pages and page your graphic in the region, scale the

graphics. Using the "Open Region" tool, click on the top left corner of the column in which the text is to be placed, then move the pointer to the diagonal corner to define the region.

Next step is to click on the "text placement" tool, and you are then presented with a dialog box which shows all of the *geoWrite* files on the current disk. Open the first file you wish to use, which in my newsletter was "Geofile 128", then move the pointer to the region just defined, and click once on the mouse, and your text is placed in the region. On screen, it appears as a box full of ripples, and the last step is to convert it to *geoPublish* format. This is done by simply clicking on the "Show" tool and the ripples will be replaced by diagonal lines

Don't worry if the lines don't go right down to the bottom of the defined region. You can either change the point size of the text to fill up the whole region, or by use of the "editor" mode, you can add a bit more text until you have all of the region used.

Graphics

Page layout is also where you drop in the graphics that you have created in *geo-Paint*. In my newsletter, you will no doubt have been super-impressed by the fantastic drawing of a 128D and a 1901 monitor (you did recognise them, didn't you?).

The same procedures as described previously for importing text are used to import Bitmap graphics. The only difference is that you select the "bitmap placement" tool instead of the "text placement" tool. The dialogue box for graphics gives you the options to centre your graphic in the region, scale the

graphic to fit the area defined or stretch AND scale the object. Like I said earlier, an editor's life has now become a cinch.

As is the case with master pages, you can save your page layout design (with your text columns and boxes for graphics defined) to the page layout library for use in future editions. Only the region coordinates are saved to the library: bitmap graphics cannot be saved for this purpose.

Having finished importing your text and graphics, the last step in completing the document is to enter your subheadings and border designs and to create any other 'original' graphics you may need to complete your newsletter. These steps are all done in:-

Page graphics

In page graphics, you have the same toolbox available as in Master Page mode. Note, however, that you cannot import text in this mode. Importing must be done in page layout mode.

In my newsletter, the three subheadings for geoFile, geoCalc and geoPaint were all done and placed in position in page graphic mode. Use the attributes box to get the placement, fonts and size to the fashion you desire. The two boxes at the bottom of each column were also done in page graphics using the attributes box to draw the borders and background graphics etc.

Two of the more interesting tools available are the "Move to Front" and "Move to Back" options in the page graphics and master pages modes. This enables you to place a graphic or text box behind or in front of another object. Try a little bit of experimenting in this mode; some very interesting effects can be obtained.

The toolbox also allows a number of other functions, some of which are as follows: drawing connected lines, drawing single lines, creating polygons, drawing open or closed splines (a spline is a smooth curve based on a series of points defined by clicking at selected intervals

with the mouse).

Squares, rectangles and circles can also be drawn, and you can fill them with different patterns, change the border thickness and so the list of options goes on.

General hints and tips

1. Try not to mix too many fonts and styles on the one page; I have done this on purpose in the example shown to illustrate the different features available. As a general rule however, this should be avoided as all you wind up with is a messy looking document that looks like you couldn't decide which way you wanted to go.

When using large fonts as in the "C128 Corner" heading, it looks better on the final result if you use a biro to fill in the small lines that appear with most

dot matric printers. If you look at the letters "OR" in CORNER you will see what I mean as I left these un-touched to show the difference this makes if you intend having your document photocopied or printed.

- 3. Make sure you save your work to disk often. That way, if you try something that you feel hasn't worked, simply hit the "recover" box from the "File menu", and you're back to your last saved version.
- 4. If you are using a 128D, your text files will all be in 80 column mode, whereas the main geoPublish program itself runs in 40 col-

umns. This is not a problem, as you get screen prompts as you open files to let you know when to switch your monitor.

The only trap in this area is to make sure you switch to 40 column mode in the Geos menu BEFORE you double click on the *geoPublish* icon to open it up. If you're in 80 column mode and you don't do this the program locks up and you have to start from scratch to load all your files back into the ram expander.

Well, that's about it for this month. As I said in last month's column, because of its size, geoPublish is not the sort of program you will master in one or two hours. However, I am sure that it is one that all Geos users will find fun to use, and one that can also be put to a lot of practical uses. See you next month.

(Turn the page to see the example newsletter.)

Why not add a 5.25" disc drive to your Amiga?



Only \$330.00

5.25" disks box of 10 \$9.50 3.5" disks box of 10 \$26.00

Send your Cheque, Bankcard, Mastercard or Visa order to: SPELLBOUND COMPUTER PUBLICATIONS Suite 6, 245 Springvale Road, Glen Waverley, Victoria 3150 Phone: (03) 232 1232 Fax: (03) 233 9274

* Telephone orders may be placed on (03) 807 0710 *

* Ring for Commodore catalogue *

When using the search made in Geofile, you must type EXACTLY the name of the record you wish to recall, even down to spacings, commas, full stops etc or else the search will not work. For example, if you defined the search as SMITH P W and the record had been stored as SMITH PW and the record had been stored as SMITH PW (no space between the initials) then your search request would fail.

The easiest way is simply to type the first few letters of the keyname required and then type the star symbol, eg: - SMI*. This would then retrieve all Smiths on file and you then flick through the records to make sure you have the right SMITH in case there are more than one on file.

Commodorer 1280

THE THINKING MAN'S

THE THINKIN sea you the you dow com or not if yo as S reco as S (no betw initial your reque fail.

The way i to ty first letters keyna then symbol would Smiths then for records you h SMITH are mo file.

COMP







GRAND OPENING Vestend COMPUTERS

277 ELIZABETH STREET, MELBOURNE

THAT'S RIGHT! Another

> store You don't get

> > BIGGER

unless you

get better

commodore 64 \$289.00

DISK DRIVES

less \$40 trade in on your Dataset 12 Mths Warranty

\$375.00

NLQ Printers 2 year warranty

Now in stock!

Expert Cartridge. \$109.00

Super Snapshot. \$129.00 Super Snapshot (128 Vers) \$139.00

Blazing Paddles + light pen \$79.95

Kracker Jax Vol I + II \$49.95 Graphics Cable Wizard \$44.95

Supercat \$44.45

BUDGET GAMES @ \$2.00 EACH

ANK DISCS

\$6.50 box of 10

Yes, we take trade-ins

3 GREAT LOCATIONS

Don't forget

Mail Order (03) 350 5144 670 1533

277 Elizabeth St Melbourne

VIC

404 Bell St Pascoe Vale

VIC 350 5144 Shop 86

The Myer Centre Brisbane QLD 221 0055

Now in stock!

<u>Dragons Lair</u>

Disk Drives 3.5"

5.25"

\$279.00 \$395.00

Hard Disk Kits from 20~MEG~HARD~DISK

40 MEG HARD DISK

\$395.00 \$995.00

\$1295.00 Stereo Sound Digitisers \$149.00 MIDI Interface (500+1000) \$89.00

SUPER PRINTER SALE Citizen 120D \$375.00 NLQ, 2 year warranty

More Public Domain Software Amicus disks

A complete list of Fish Disks Speakit up to number 146 appeared in our Amiga Annual. We now have up to number 177. A catalogue disk containing the complete listing, as well as updates on other PD disks on offer is available for \$5.

Fish Disks remain \$6 each. There's always someone at the end of our editorial phone-line (02) 817 0011) to answer problems with these disks or take your order.

Amicus disks, produced by a large Amiga user group in the United States, are also now available. A complete listing follows.

AMICUS DISK #1

ABasiC Programs: Graphics 3d solids modelling program 3DSolids with sample. Blocks Draws blocks. Cubes Draws cubes Durer Draws pictures in the style of Durer. **FScape** Draws fractal landscapes. Hidden 3d drawing program with hidden line removal. JPad Simple paint program Optical PaintBox Draw several optical illusions. Simple paint program. Draws the Space Shuttle in Shuttle wire frame. SpaceArt Graphics demo. Speaker Speech utility. Sphere Draws soheres Spiral Draws colour spirals. ThreeDee 3d function plots. Topography Artificial topography. draws circle graphics. Wheels Xenos draws fractal planet

ABasiC Programs : Tools AddressBook simple database program for addresses. simple card file database CardFile program. Demo multiwindow demo. KeyCodes shows keycodes for a key you press. Menu

run many ABasiC programs from a menu. MoreColours way to get more colours on the screen at once, using aliasing Shapes simple colour shape designer.

game. Othello

speech and narrator demo.

classic computer brick wall BrickOut board game, also known as 'go'. Saucer

ABasiC Programs : Games

simple shoot-'em-up game. simple talking spelling game. selectable graphics demo. Spelling ToyBox

ABasiC Programs : Sounds Entertainer plays that tune. pretends its a real computer Police simple police siren sound SugarPlum plays 'The Dance of the Sugar Plum Fairies'.

C Programs simple terminal program. aid to compiling with Lattice C. opposite of CONVERT for **ATerm**

source code to the 'dotty' window UNIX style filename expansion. echox fasterfp explains use of fast floating. point math.

FixDate fixes future dates on all files on a disk freedraw simple workbench drawing

program. GfxMem graphic memory usage indicator.

Grep searches for a given string in a file, with documentation. shows off the hold-and-modify ham method of colour generation. IBM2Amiga fast parallel transfers between an IBM and an Amiga. mandel mandelbrot set program. patterned graphic demo. makes Lattice C object file moire

symbols visible to Wack. quick quicksort strings routine example sample window I/O. turns on interlace mode. qix-type graphic demo.

Other executable programs : speechtoy speech demonstration. whichfont displays all available fonts. Texts 68020 describes 68020 speedup board from CSA

explains use of the ASSIGN aliases command. bugs 3.02. known bug list in Lattice C CLICard reference card for AmigaDOS CLI. CLICommands guide to using the CLI. shorter guide to Commands AmigaDOS CLI commands. EdČommands guide to the ED editor. **Filenames** AmigaDOS filename wildcard pattern matching. HalfBright explains rare graphics chips that can do more colours. **ModemPins** description of the serial port pinout. RAMDisks tips on setting up your RAM: disk tips on using ROMWack. explanation of Instrument **ROMWack** Sounds demo sound file format. refutation of Amiga's CPU Speed and custom chip speed. tips on using Wack. WackCmds

AMICUS DISK #2

C Programs AmigaDOS object library alib manager. text file archive program. fixobj auto-chops executable files. shell simple CLI shell. sa.usa file compression programs Yacht C a familiar game Make a simple 'make' programming utility. Emacs an early version of the Amiga text editor

Assembler programs: binary search code. UNIX compatible qsort() bsearch.asm asort asm function, source and C test program. setimp.asm setimp() code for Lattice 3 02 SVprintf UNIX system V compatible printf(). trees.o UNIX compatible tree()

John Draper Amiga Tutorials Animate describes animation algorithms. Gadgets tutorial on gadgets. Menus learn about intuition menus.

AMICUS DISK #3

function.

C Programs a C cross reference generator. extra-half-bright gfx demo. chop (truncate) files down to **Xref** 6bitcolor chop size. removes strange characters cleanup CR2LF converts carriage returns to line feeds in Amiga files adds compile errors to a C Error file. Hello window example from the RKM. Kermit generic Kermit implementation, flakey, no terminal mode. sound demo plays scales SkewB Rubik cube demo in hi-res colors.

AmigaBasic Programs: Automata cellular automata simulation. CrazyEights card game. function graphing programs. Graph WitchingHour a game.

ABasiC Programs: Casino games of poker, blackjack, dice and craps. Gomuko also known as 'Othello'. sort of an adventure game. Sabotage

Disassem a 68000 disassembler. shows a given set of IFF DoSlide pictures. Arrange a text formatting program.

Assembler Programs: terminal program with ArgoTerm speech and Xmodem.

AMICUS DISK #4

Files from the original Amiga Technical BBS. Note that some of these files are old, and refer to older versions of the operating system. These file came from the Sun system that served as Amiga technical support HQ for most of 1985. These files do not carry a warranty, and are for educational purposes only. Of course that's not to say that they don't work.

Complete and nearly up to date C source for 'image-ed', an early version of the lcon Editor. This is a little flaky, but compiles and runs.

An intuition demo, in full C source, including files: demomenu.c, demomenu2.c, demoreq.c, getascii.c, idemo.c, idemo.guide, idemo.make, idemoall.h. nodos.c, and txwrite.c.

add external memory to the addmem c system. example of BOB use. console IO example. console10.c creaport.c create and delete ports. create standard I/O creastdi.c requests creatask.c creating task examples. diskin c example of track read and write. source to the 'dotty window' dotty.c demo dualplay.c dual playfield example. flood fill example. old version of 'freemap'. flood.c freemap.c

tools for VSprites and geltools.c BOBs. gfxmem.c

indicator

graphic memory usage

hello.c window example from RKM. inputdev.c adding an input handler to the input stream.

joystik.c reading the joystick.

keybd.c direct keyboard reading. layertes.c layers example. mouseport.c test mouse port. ownlib.c,

ownlib.asm example of making your own library with Lattice. paratest.c tests parallel port

commands. seritest.c tests serial port comm

seritest.c tests serial port commands, serisamp.c example of serial port use. prinintr.c code.

prtbase.h printer device definitions. regintes.c region test program. source to interlace on/off program.

setparallel.c set the attributes of the parallel port.

setserial.c set the attributes (parity, data bits) of the serial port. singplay.c single playfield example. speechtoy.c source to narrator and

phonetics demo.
timedely.c simple timer demo.
timer.c exec support timer functions.
timrstuf.c more exec support timer

functions.
whichfont.c loads and displays all available system fonts.

process.i and prtbase.i assembler include files.

autoqstr.txt warnings of deadlocks with autorequestors.

console(0.txt copy of the RKM console I/O chapter. diskfont.txt warning of disk fontloading

bug. fullfunc.txt list of #defines, macros,

functions.
inputdev.txt preliminary copy of the input device chapter.

License information on Workbench distribution license. Printer pre-release copy of the chapter on printer drivers, from RKM.

vol1fd.txt 'diff' of .fd file changes from version 1.0 to 1.1. v28v1.diff 'diff' of include file changes from version 28 to 1.0

AMICUS DISK #5

Files from the Amiga Link / Amiga Information Network.

Note that some of these files are old, and refer to older versions of the operating system. These files are from Amiga Link. For a time, Commodore supported Amiga Link, aka AIN, for online developer technical support, It was only up and

running for several weeks. These files do not carry any warranty, and are for educational purposes only. Of course, that's not to say they don't work.

menudemo.o a demo of Intuition menus in C source.
Whereis.c find a file searching all

subdirectories.
bobtest.c BOB programming example.
sweep.c sound synthesis example.

Assembler files :

mydev.asm sample device driver.
mylib.asm sample library example.
mylib.i
mydev.i

asmsupp.i macros.i assembler include files.

Texts:
amigatricks tips on CLI commands.
extdisk external disk specification.
gameport game port spec.
parallel parallel port spec.
serial serial port spec.
v1.1update list of new features in version 1.1.

v1.1h.txt 'diff' of include file changes from version 1.0 to 1.1.

Files for building your own printer drivers, including dospecial.c, epsondata.c, init.asm, printer.c, printer.link, printertag.asm, render.c, and wait.asm.

This disk also contains a number of files describing the IFF specification. These are not the latest and greatest files, but remain here for historical purposes. They include text files and C source examples. The latest IFF spec is elsewhere in this library.

AMICUS DISK #6

IFF Pictures

This disk includes the DPSlide program, which can view a given series of IFF pictures, and the showilbm program which can view pictures one at a time. Saveilbm will save the topmost screen as an IFF file (though not exactly the same as the original screen - it is half height interlaced) The pictures include a screen from ArcticFox, a Degas dancer, the guys at Electronic Arts, a gorilla, horses, King Tut, a lighthouse, a screen from Marble Madness, the Bugs Bunny Martian, a still from an old movie, the Dire Straits moving company, a screen from Pinball Construction Set, a TV newscaster, the PaintCan, a world map, a Porsche, a space shuttle mission patch, a

ALWAYS A STEP AHEAD

	111111111	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	111111111
SOFTWARE	\$	HARDWARE/DOS	\$
DISK DISECTOR	54.95	EXCELERATOR DOS	199.00
DISK MASTER	43.95	DOLPHIN DOS	169.00
DOLPHIN COPY	33.00	TURBO ROM	44.00
DOUBLE IMAGE II	54.95		
DATASETTE DOCTOR	34.50	HARDWARE/ DRIVES	
EXPERT V3.2 U/D	24.95	EXCELERATOR + PLUS	299.00
EXPERT V3.2 S/D	24.95	AMIGA 3.5	299.00
FREEZE MACHINE V3.0 U/D	24.95	AMIGA 5.25 MASTER	399.00
FREEZE FRAME V2.0 U/D	24.95		
The second secon		HARDWARE/ MISC	
HARDWARE/ CARTRIDGES		SLIMLINE CASE	19.95
FREEZE MACHINE	99.00	ANTI KNOCK	14.95
EXPERT V3.2 + U.D.	135.00	USERPORT EXP. CARD	33.00
QUICKDISC + MK II	54.95	JOYSTICK Q/S MK II	29.95
GRAPHICS UTILITY	65.90	C64 KERNAL	9.50
FREEZE FRAME 3B	65.00	4 SLOT CARTRIDGE EXP	54.95
RESET CARTRIDGE	12.95		eminor
FASTLOAD CARTRIDGE	19.95	HARDWARE/ PRINTERS	
ECONOMICAL FASTLOAD	24.95	PARALLEL CABLE	32.95

UNIT 8 HEWITTSON RD, ELIZABETH WEST, SOUTH AUSTRALIA 5113 Telephone: (08) 287 0191 Telex: AA186422 Fax: (08) 287 1241 tyrannosaurus rex, a planet view, a VISA card, a ten speed bicycle and some others.

AMICUS DISK #7

DigiView HAM demo picture disk.

This disk has pictures from the DigiView hold-and-modify video digitizer. It includes the ladies with pencils and lollypops, the young girl, the bulldozer, the horse and buggy, a computer cable, the dictionary page, the robot and Robert. This includes a program to view each picture separately and all together as separate, slidable screens.

[Note - the disk must be in df0: to use the 'digiview' icon, use F1 - F6 to switch between the pictures. Unfortunately there doesn't seem to be any way out except CTRL-A-A. - only the bulldozer, dictionary and Robert are IFF.]

AMICUS DISK #8

C Programs:
browse view text files on a disk, using menus, crunch removes comments and white space from C files.
iconexec EXECUTE a file of CLI commands from Workbench.
PDScreenDump dumps rastport of highest screen to printer. setalternate sets a second image for an icon when clicked once. setwindow makes windows for a CLI program to run under Workbench. smallclock a small digital clock in a window menu bar. scrimper screen printer, from the 4th Amazing Computing.

AmigaBasic Programs [Note - many of these programs are present on AMICUS DISK #1 as ABasiC programs. Several of these were converted to AmigaBasic, and are included here. addressbook a simple address book database. ball draws a ball cload program to convert Compuserve hex files to binary. clue the game, intuition driven. colorart art drawing program. deluxedraw the drawing program from the 3rd Amazing Computing eliza conversational computer psychologist. othello the game, also known as 'go'. ratmaze 3D ratmaze game. ROR boggling graphics demo. draws 3D pictures of the shuttle space shuttle. simple spelling program. spelling wierd zero-gravity yoyo demo, YoYo tracks yoyo to the mouse.

Executable Programs:
3DCube modula-2 demo of a rotating cube.
alticon sets a second icon image,
displayed when the icon is clicked.
AmigaSpell a slow but simple spelling checker.

the ARC file compression arc program, a must for file transmission by modem. graphics demo. bertrand disksalvage program to rescue trashed disks. kwikcopy a quick but nasty disk copy program, ignores errors. LibDir lists hunks in lists hunks in an object file. savelLBM saves any screen as an IFF picture. screendump shareware screen dump program. starterm version 2.0, terminal program with Xmodem.

Texts:
LatticeMain Lattice.
GDiskDrive drive.
GuruMed Lat3.03bugs bug list of Lattice C v3.03.
MForgeRev HD.

tips on fixing main.c in tips on fixing main.c in list of Lattice.

explains the Guru numbers. bug list of Lattice C v3.03.

With the company of the co

.BMAP files: These are the necessary links between AmigaBasic and the system libraries. To take advantage of the Amiga's capabilities in Basic you need these files. BMAPS are included for 'clist', 'console', 'diskfort', 'exec', 'icon', 'intuition', 'layers', 'mathffp', 'mathieeedoubas', 'mathieeesingbas', 'matheesingbas', 'matheans', 'potgo', 'timer' and 'translator'.

AMICUS DISK #9

AmigaBasic Programs FlightSim simple flight simulator program. HuePalette explains Hue, Saturation and Intensity. Requester example of requesters from AmigaBasic. demonstrates scrolling Scrolldemo capabilities. Synthesizer sound program Worldmap draws a map of the world.

Executable Programs Boing! latest selectable speed. latest boing! demo with Brush2C converts an IFF brush to C data instructions, initialization code.

Brush2lcon converts IFF brush to an icon. Dazzle graphics demo, tracks to mor ice DeciGEL assembler program for stopping 68010 errors. menu-bar clock and data Klock display. the game of life. life TimeSet ion-based way to set the date and time. EMEmacs another Emacs, more oriented to word processing. MyCLI a CLI shell, works without the Workbench.

Texts:

FnctnKeys read function keys from AmigaBasic. HackerSln explains how to win the game 'hacker'. Ist68010 guide to installing a 68010 in your Amiga. PrinterTip how to print files in the background StartupTip tips for setting up your startup-sequence. XfrmrReview list of transformer programs that work.

Printer Drivers:
Printer drivers for Canon PJ-1080A
Cltoh Prowriter
Epson an improved version to that on workbench 1.1.
Epson LQ800
Gemini Star-10
NEC 8025A
Okidata ML-92
Panasonic KX-P10xx family
Smith-Corona D300
And documentation describing the installation process.

AMICUS DISK #10

Instrument sound demos:
This is an icon driven demo, circulated by many dealers. It includes the sounds of an acoustic guitar, an alarm, a banjo, a bass guitar, a boink, a calliope, a car horn, claves, water drip, electric guitar, a flute, a harp arpeggio, a kickdrum, a marimba, a organ minor chord, people talking, pigs, a pipe organ, a Rhodes piano, a saxophone, a sitar, a snare drum, a steel drum, bells, a vibrophone, a violin, a wailing guitar, a horse whinny, and a whistle.

AMICUS DISK #11

C Programs :
dirutil intuition-based CLI
replacement manager.
cpri shows and adjusts priority of
CLI processes.
ps shows info on CLI processes.
vidtex displays Compuserve RLE
pictures.

AmigaBasic Programs: PointerEd pointer and sprite editor program. optimize optimization example from Amazing Computing article. calendar large, animated calendar, diary and date book program. amortize loan amortizations brushtoBOB converts small IFF brushes to AmigaBasic BOB objects. grids hilbert draw and display waveforms. draws Hilbert curves. mad lib story generator, talking mailing list program. 3D graphics program madlib meadows3D from Amazing Computing article.
mousetrack mouse tracking example in hi-res mode, slot slot machine game. tictactoe the game. pachinko-like game. switch make starnge sounds. weird

Executable Programs:

cp UNIX-like copy program.

cls screen clear.

diff UNIX-like stream editor uses

'diff' output to fix files.

pm chart recorder performance

indicator.

Assembler Programs : cls screen clear and CLI arguments example.

Modula-2 Programs: trails moving-worm graphics demo. caseconvert converts Modula-2 keywords to uppercase.

Forth Programs : breshenhan circle algorith example.

Analyze: Twelve templates for the spreadsheet Analyze.

There are four programs here that read Commodore 64 picture files. They can translate Koala Pad, Doodle, Print Shop and News Room graphics to IFF format. Getting the files from your C-64 to the Amiga is the hard part

AMICUS DISK #12

Executable Programs : blink 'alink' compatible linker, but faster, clean spins the disk for disk cleaners. sends Epson settings to ensonset PAR: from menu. showbig view hi-res pics in lo-res superbitmap. tell the time. speaktime undeletes a file. undelete cnyapldhm converts Aplle][low, medium and hi-res pictures to IFF menu editor produces C code menued for menus. auick quick disk-to-disk nibble copier quickEA copies Electronic Arts disks, removes protection. txed 1.3 demo of text editor from Microsmiths.

C Programs:
spin3 rotating blocks graphics demo.
popCLI start a new CLI at the press
of a button, like Sidekick.
vsprite VSprite example code from
Commodore.

Assembler Programs : star10 makes star fields like Star Trek intro.

Amigabasic Programs : AmigaBBS a shareware BBS.

Pictures:
MountMandelbrot 3D view of mandelbrot set.
StarDestroyer hi-res Star Wars starship.
Robot robot arm grabbing a ovlinder.

Don't miss out on these great bargains! Australian Commodore Review Disk Mags Nos 1 to 12

Disk Magazine One \$10 Forest Raiders - Full machine code shoot 'em up Machine code paint, border, input and flash routines Nice Lister - for readable listings on non-Commodore printers. Recover II - for recovering deleted files, and a catalog program - for getting a disk directory without losing your program And More	Disk Magazine Two Programs demonstrating 3D graphic plots A terminal program called Teleport A tutorial on bits and bytes Character editor - for designing your own custom alphabets and graphics & A full demonstration of Electronic Card File And More
Disk Magazine Three \$10	Disk Magazine Four \$10
Programs: Hangman, Labyrinth, Calendar, Finance, Typing Practice, Roadblock, Bird Invaders Feature: Constructabrix - education and graphic construction program for younger users And More	Featuring: Graphic Workshop _ a complete design system for sprites, graphics, and character sets - with tutorials
Disk Magazine Five \$10	Disk Magazine Six: \$12
Utilities for using Newsroom on an MPS 802 plus printing disk cover with directories, writing signs, printing Doodle and Printshop pictures and more all on the MPS 802! A demonstration of games in the future And More	Games: Bert the Bug Hangman Graphics: Light Fantastic Demos: Amiga Pharoah Space Harrier, Max Headroom The Pacer, Sade Utilities: 1571 Utility DIR@828 And More
Disk Magazine Seven Utilities: Anti-Isepic, Sledgehammer, Fast Format, Renumber, PS/PM/NR, PS Printer, Graphics Editor. Other: Joystick Tester, Irish Jokes, Convertor, Ultimate Writer, Home Finance, Oscilloscope, Dice Roller, Chord Maker, Dark Forest, Don Martin, Funny, Music Classics. Demos: Karate Kid II, Thrust Concert, 3D Demo, and more. For 128: Bootmaker 128/64 Utility, Convert Basics utility.	Disk Magazine Eight \$12 Utilities Track and Sector, Function Keys, Unscratched, Relocatable directory, Tape Rename Home/Business Calendars, Chequewriter, Screen clock Graphics ESCOS version 2.99, Newsroom Camera, Clear Screen, Future Writer, Demos, Enterprise II, Eddie Murphy Games A super special for issue 8.
Disk Magazine Nine \$12 C64 14 graphics and music demos 128 Disk Filer Little Invoicer Sprite Clock 128 Block Reader	Disk Magazine Ten Cup challenge - sailing simulation Amiga memories Define your function keys \$12.95 Escos with Music Othello Look-alike
Sprites in the Border Three music programs	Compiled Appointment Manager Demos and music
Disk Magazine Eleven \$12.95 Education: Equation Manipulation, Linear Equations, Probability. Utilities: 80 Characters, Graphic Converter, Batch line number deleter, Function key definition, System call locator Dos utilities: Fix directory, Text search, Disk tidy, Drive aligner, Disk doctor. Hi-res jigsaw puzzle. Geos printer drivers. Demos.	Disk Magazine Twelve \$12.95 Appointment Manager 2.1 - now with print and search facilities. Third Term - comms program, dozens of features, menu driven. Panes - windowing system. Time Crystal - Interactive graphic demo. Atlantis - undersea fast action shoot-em-up. Circle Navigation, Education Programs, Music, and lots more
Order Form Please send m Name copies I Address copies I	

F		
Order Form	Please send me:	
Name	copies Disk Magazine No 1 @ \$10 copies Disk Magazine No 2 @ \$10 copies Disk Magazine No 3 @ \$10 copies Disk Magazine No 4 @ \$10	Post to: Australian Commodore Review
Postcode	copies Disk Magazine No 5 @ \$10	21 Darley Road Randwick, NSW 2031
□ Cheque □ Bankcard □ MoneyOrder No:	copies Disk Magazine No 6 @ \$12 copies Disk Magazine No 7 @ \$12	OR
Expiry Date	copies Disk Magazine No 8 @ \$12 copies Disk Magazine No 9 @ \$12	Use your Bankcard and phone us to order on:
Signature	copies Disk Magazine No 10 @ \$12.95	(02) 398 5111
Please allow two weeks for delivery	copies Disk Magazine No 11 @ \$12.95 copies Disk Magazine No 12 @ \$12.95 PLUS \$2.00 P+P TOTAL	Postage & packing \$2.00

Texts: vendors addresses. Cardco boards. Clnclude files. mindwalker curved to vendors addresses. Clnclude files files mindwalker clues to playing the game well curved files.

slideshow make your own slideshows from the Kaleidescope disk.

AMICUS DISK #13

AmigaBasic Programs:
Routines from Carolyn Scheppner of CBM
Tech Support, to read and display IFF
pictures from AmigaBasic. With
documentation. Also included is a program
to do screen prints in AmigaBasic, and the
newest BMAP files with corrected
convertFD program. With example
pictures and the saveILBM screen capture
program.

Routines to load and play FutureSound and IFF sound files from AmigaBasic, by John Foust for Applied Visions. With documentation and C and assembler source for writing your own libraries, and interfacing C to assembler in libraries. With example sound.

Executable programs:
gravity Scientific American, Jan '86
gravitation graphic simulation.

Texts:
MIDI make your own MIDI instrument interface, with documentation and a hi-res schematic picture.

AMICUS DISK #14

Tools:
Dan Kary's C structure index program.

AmigaBasic Programs : BMAP reader by Tim Jones. IFFBrush2BOB by Mike Swinger. AutoRequester example.

Executable Programs:

DOSHelper windowed help system for CLI commands.

PETrans translates PET ASCII files to ASCII files.

CSquared graphics program from Scientific American, Sept '86.

crlf adds or removes carriage returns from files.

dpdecode decrypts Deluxe Paint, removes copy protection. queryWB asks Yes or No from the user, returns exit code.

visicalc-like spreadsheet no

vc visicalc-like spreadsheet, no mouse control. view views text files with window and slider gadget.

oing, sproing, yaboing, zoing are sprite-based boing! style demos.

CLIClock, sClock, wClock are window border clocks.

Texts:

An article on long persistence phosphor monitors, tips on making brushes of odd shapes in Deluxe Paint, and recommendations on icon interfaces for Commodore-Amiga.

AMICUS DISK #15

C Programs :

pr a file printing utility, which can print files in the background, and with line numbers and control character filtering. displays a chart of the blocks allocated on a disk. ask questions an 'execute' file. returns an error code to control execution in that batch file. an enhanced version of the AmigaDOS 'status' command. dissolve random-dot dissolve demo displays IFF picture slowly, dot by dot, in a random fashion. popCLI2 invoke a new CLI at the

press of a key. Executable programs : form file formatting program through the printer driver to delect print styles. diskcat catalogs disks, maintains, sorts, merges lists of disk files. SunRize Industries' sampled PSound sound editor and recorder. iconmaker makes icons for most programs. fractals draws great fractal sea- and mountainscapes.
3D breakout breakout in a new dimension, requires 3D glasses. [very good with the glasses, almost impossible

without].
amigamonitor keep track of what's going on in the machine. displays lists of open files, memory use, tasks, devices and ports in use.

cosmoroids version of asteroids for the Amiga.

sizzlers high resolution graphics demo written in Modula-2.

ansi.txt explains escape sequences the CON: device responds to.

Fkey includes template for making paper to sit in the tray at the top of the Amiga keyboard.

spawn programmers document from Commodore Amiga, describes ways to use the Amiga's multitasking capabilities in your own progs.

AmigaBasic Programs:
grids draws
sound waveforms, and hear them played.
light a version of the TRON
light-cycle video game.
migasol a game of solitaire.
stats program to calculate batting
averages.
money try to grab all the bags of
money that you can.

This disk also contains two beautiful IFF pictures, of the enemy walkers from the ice planet in Star Wars, and a picture of a cheetah.

AMICUS DISK #16

juggler demo by Eric Graham. a robot juggler bouncing three mirrored balls, with sound effects. Twenty-four frames of HAM animation are flipped quickly to produce this image. You control the speed of the juggling. The author's documentation hints that this program might someday be released as a product

IFF Pictures : parodies of the covers of Amiga World and Amazing Computing magazines.

C Programs:
inputhandler example of making an input
handler.
filezap3 binary file editing program.
showprint displays IFF picture, and
prints it.
gen program indexes and retrieves
C structures and variable
declared in the Amiga include file system.

Executable Programs:
fixhunk2 repairs an executable file for expanded memory.
rms2smus converts Music Studio files to IFF standard SMUS format. This program may have a few bugs, especially in regard to very long songs, but it works in most cases.
missile Amiga version of the Missile Command video game.

Flight Simulator:
This disk also contains several files of scenarios for Amiga Flight Simulator II. By putting one of these seven files on a blank disk, and inserting in the drive after performing a special command in this game, a number of interesting locations are preset into the Flight Simulator program. For example, one scenario places your plane on Alcatraz, while another puts you in Central Park

AMICUS DISK #17

Telecommunications disk which contains six terminal programs.

Comm v1.33 terminal program with

XModem, WXmodem.
ATerm v7.2 terminal program includes
Super Kermit. VT-100 v2.6 Dave
Wecker's VT-100 emulator with XModem,
Kermit & scripting.
Amiga Kermit v4D(060) port of the
UNIX C-Kermit.
VTek v2.3 Tektronix graphics terminal
emulator based on the VT-100
program. fully documented.
AmigaHost v0.9 for Compuserve.
Includes RLE graphics ability and CIS-B
file transfer protocol.

Useful Utilities: fixhunk expansion memory necessity. fixobj removes padding from files received by XModem, etc. txt filters text files from other systems to be read by the Amiga. addmem for use with non-auto-config memory expansion.

arc pack/unpack files and compress for transmission.

AMICUS DISK #18

Logo Amiga version of the popular computer language, with examples.

TV*Text demo version of the TV*Text character generator. [it seems that you must CTRL-A-A to get out] PageSetter freely distributable versions of the updated PagePrint and PageIFF programs for the PageSetter desktop publishing prog. FullWindow resizes any CLI window using only CLI commands. Life3D 3D version o 3D version of Conway's LIFE program. CLI utility to re-assign a new Workbench disk. Calendar. WKS Lotus-compatible worksheet that makes calendars. [a layout only - this is not executable] setkey demo of keyboard key reprogrammer, with IFF picture to make function key labels. **VPGen** video pattern generator for alligning monitors. HP-10C He Hewlett-Packard-like calculator SetPrefs change the preference styles to any system-configuration file. StarProbe program studies stellar evolution ROT C version of Colin French's AmigaBasic ROT program from Amazing Computing, ROT edits and displays polygons to create three dimensional objects. Up to 24 frames of animation can be created and displayed.

AMICUS DISK #19

into dust, written in Modula-2.

Workbench windows, adjustable.

away from the mouse.

Scat

This disk contains several programs from Amazing Computing. The IFF pictures on this disk include the Amiga Wake part T-shirt logo, a 16 colour hi-res image of Andy Griffith, and 5 Amiga Live! pictures from the Amazing Stories episode that featured the Amiga.

Like Ing, windows on screen run

decays the Workbench away

DropShadow2 adds-layered shadows to

Assembler Programs : Solve Linear equation solver in assembler.

AmigaBasic Programs:
Gadgets
Bryan Catley's AmigaBasic
tutorial.
HouseHold
Bryan Catley's AmigaBasic
houseHold inventory program.
Waveform
Jim Shield's Waveform
Workshop in AmigaBasic.
DiskLib
John Kennan's AmigaBasic
disk librarian program.
Subscripts
Ivan Smith's AmigaBasic
subscript example.

C Programs : String,Boolean C programs and executables for Harriet Maybeck Tolly's intuition tutorials Bob Riemarsma's example for Skinny C making small C programs. COMAL.h make C look make C look like COMAL header file.

Executable Programs: EmacsKey makes Emacs fi definitions, by Greg Douglas. makes Emacs function key AMon 1.1 snoop on system resource RTF Bard's Tale charater editor. Size CLI program shows the size of a given set of files. WinSize CLI window utility resizes

AMICUS DISK #20

Compator, decoder Steve Michel AmigaBasic tools.

BobEd Bob and sprite editor written in C SpriteMasterII Sprite editor and animator written by Brad Kiefer. BlitLab Blitter chip exploration C program by Thomas Rokicki.

FPic image processing program by
Bob Bush loads and saves IFF images, changes them with several techniques. complete home banking program.

AMICUS DISK #21

Target Makes each mouse click sound like a gunshot. Sand simple game of sand that follows the mouse pointer.
PropGadget Harriet Maybeck Tolly's proportional gadget example. EHB checks to see if you have extra-half-bright graphics Piano simple piano sound program.
CelScripts Makes Cel animation scripts for Aegis Animator, in AmigaBasic.

This disk also contains electronic catalogs for AMICUS disks 1 to 20 and Fish disks 1 to 80. They are viewed with the DiskCat program, included here.

AMICUS DISK #22

Cycles lig ShowprintII light cycle game. views and prints IFF pictures, including larger than screen. PrtDrvGen2.3 latest version of a printer driver generator.
Animations VideoScape animations of a plane and a Boing ball. Garden makes fractal gardenscapes BasicSorts examples of binary search and insertion sort in AmigaBasic.

AMICUS DISK #23

This disk contains:

- 1. Instruments noncopyrighted instruments used to play the demonstration scores on this disk. These IFF instruments can also be used in Instant Music, Deluxe Music, Deluxe Video, SoundScape, and Sonix.
- 2. Music Songs that can be played with the public domain player SMUSPlay provided on this disk. The scores are limited because they are the only ones I could find that are not copyrighted songs. If you like the limited selection of music here, CAMEO suggests you buy one of the commercial music programs for which there are many scores are available in the PD.
- 3. MCraft2SMUS This is a program to convert old Pre-Release version MusiCraft scores to SMUS (an IFF standard). Once in SMUS they can be imported into Deluxe Music, Sonix, or
- 4. 1812Overture The full 1812 Overture by Tchaikovsky, since this is over 18 minutes of music complete with Cannons your computer must have more than 512K of memory to play it.
- 5. SMUSPlay This is a public domain program that plays songs in the SMUS format. It is used to play the songs in the music directory.
- 6. ListINSTR A handy utility to list the instruments required to play a song. This is necessary because several programs simply say "Cannot find instrument", and do not tell you which instrument is missing.
- 7. MStudio2SMUS This program converts Music Studio songs to the SMUS format. The advantages of this are described above.

Special thanks for this disk goes to Rick Wirch and the Commodore Amiga Madison Enthusiasts Organization of Madison, Wisconsin.

AMICUS DISK #24

BNTools - Three examples of Assembly language code: Setlace, Why and Loadit - Example in C of using the Translator and Narrator devices to make the Amiga talk CodeDemo - Modula-2 program converts assembler object files to inline CODE statements, comes with screen scrolling example

VirusCheck - Several programs for finding and eliminating the SCA virus, and an explanation of it BoingMachine- Ray-traced animation, with Movie program which can play sounds along with the animation AmiBug Workbench hack Sectorama - Disk sector editor, recover hard disk files, DGCS - Deluxe Grocery Construction Set. bmon - System monitor AmigaBasic program Moose - Random background program, Bullwinkle says witty things, user-definable MonoLace - Resets Preferences to several colours of monochrome & interlace screens: source included Iconize - Reduces the size of IFF images & companion program Recolor remaps palette colours you can make icons look like miniatures of pictures QuickFlix - Script-driven animation and slideshow program flips through IFF images

AMICUS DISK #25

- Fine music and

Nemesis

space graphics
KickPlay - Text describing
patches to the Kickstart disk, for the A1000 - Addmem for old expansion memory; change the Workbench Hand picture; restore_correct Checksums KeyBrd - Edit, adjust or create keymaps 8ColorWB - Modifies Workbench to allow 8 ∞lours; use with Dpaint and Zapicon and Brush2lcon Brushlcon - Converts brushes to icons Egraph - Graphing program, reads [x,y] values to the screen - Message-saving Keept 1 program for telecommunications Kill.fastdir- Removes CLImate's fastdir files LaceWB - Changes Workbench from Interlace to Non-interlace and vice versa PW_Utility - Prowrite utility to change margin settings and font types

- Prints out probable causes for Guru errors, C

PRINTER RIBBONS

MPS 801	11.75	Epson EX800 18.50
MPS 802	12.00	Epson MX 800 14.50
MPS 803	11.00	Epson LQ1000 17.00
MPS 1000	9.25	P'sonic KXP 12.50
MPS 1200	12.50	Riteman C+ 16.00
MPS 2010	17.50	Star NX10 13.00
Vic 1520		Star NX 1000 9.00
		Annual Committee and the Committee of th

* hundreds of other ribbon bargains *single colours available for most types Heat Transfer ("Underwear") ribbons complete ribbon recycling service

Lazarus

Ribbons

70 Wolseley Rd Mosman NSW 2088

tel: (02) 960 2737 fax: (02) 968 1276



CHARLIE'S COMPUTER WORKSHOP

COMMODORE REPAIRS & SPARE PARTS

AMIGA 1.3 Kickstart ROM Available

FREE SOFTWARE with C64 REPAIRS

FAST SERVICE at REASONABLE PRICES

* REPAIRS by MAIL *

Open weekdays 8.30-5.00

2A HARPER ST, ABBOTSFORD, 3067. PHONE: (03) 417 4644

Cockroach Software

PO Box 1154 Southport 4215 Phone: (075) 91 6188

Cockroach Turbo Rom

\$42.00 inc postage

Cockroach Graphics Utility

\$69.95 inc postage

DISKETTE

Lifetime Guarantee

26 Boron St Sumner Park Brisbane QLD 4074 Fax (07) 376-3286

Phone (07) 376-2955 5 1/4 D.D 360K \$6.58 5 1/4 H.D 1.2MB \$17.88 3 1/2 D.D 720 K \$20.50 3 1/2 H.D \$55.90 1.44MB

source included DiskWipe - From Software Distillery, removes files from drives or directories,

- AmigaBasic program to make snowflake designs

Mlist - Mailing list database SoftBallStats - Maintain softball stats Dodge - Modula2 program for moving Workbench screen around after a time, to prevent monitor burn-in

AMICUS DISK #26

Soundscape - Todor Fay's code for Echo, DirMaster - Disk cataloguer Chord, TX, and WU, along with executables

ImageMaker - Edits image structures for

Claz2 - Update of program to convert IFF image

s to Postscript files for laser printing SDBackup - Hard disk backup program TCB - Prints info about tasks in the system

FunBut - Lets a function key act like a rapid series of mouse clicks

- Sends a "Diskchange" message via an icon

System config - Makes screen 80 columns wide in Scribble!

Dick2Rarn - 2 programs to move the Scribble! spell checker to

and from Ram disk

Lexical - Analyses a text file and gives readability scores

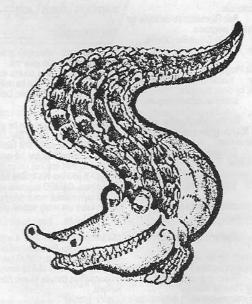
HexDump - Modula2 program to display memory locations in hex

- Design Tartan plaids in AmigaBasic

BMP

- Plays 8SVX sampled sounds

in the background ShowPt - Changes your pointer to a given pointer (there are also some mouse pointers here, and a Workbench program to show them)



Australian Commodore and Amiga Review

AMIGA ANNUAL 1989

♦ Word processing ♦ Graphics ♦ Communications ♦ Databases ♦ Games User Groups, how to beat the Virus, and lots more

Complete Software Guide

what's available in Australia Full list of public domain Fish Disks

Only \$5.95 - don't miss it)

Available from newsagents, or by mail order from us: Post to Gareth Powell Publishing 21 Darley Road, Randwick, 2031 or telephone and give your Bankcard number

NameSignat	ture
Address	
l	Postcode
ChequeBankcardNo	Exp Date
Please Send meCopies of Amiga Annual 1988	
Please Send me Copies of Commodore Annual 1988	at a cost of \$5.95 each plus \$1.00 P. & P.

VIATEL ADAPTORS ONLY \$79.80 SAVE \$160 FROM COMMODORE.

APPROVED

Please allow four weeks for delivery

Commodore is offering Viatel adaptors for only \$79.80, a saving of \$160. So if you own a Commodore 64C,128 or I28D, transform your computer into a 2-way system, through which you can receive and act on information.

Send in this coupon now. Offer open while stocks last.

commodore

Please send me	(n	numb	er re	equir	red)	Viate	el Ac	lapto	or/s a	t a c	ost c	of \$7	9.80	eac
Name:		light									i in	witern	I FISI	Moil
Address:				- X - T- 12					P	ostc	ode:		EAGOR !	No. I Surv
Method of Paymer	it (Plea	se ti	ck):											
	☐ Che	eque	gián 🗓	Mo	ney	Orde	er		Banko	ard				
	☐ Mas	sterc	ard		Com	nmod	dore	Cre	edit C	Card				
Card No.:												3113		200 8
Expiry Date:	が真視。 A m 可に合か				Т	oday	's Da	ate:_						
Card Holder's Sign														

How to Function in C

Introduction to C Programming Part IV By Adrian Sheedy

INCE C is a function oriented language, new functions can be easily created to perform specific tasks. Although there are only just over thirty keywords in C there are many standard and special functions which are supplied with compilers to make life easier for you.

It is often said by proud C programmers that C has only ten percent of the keywords that BASIC has. This may be true, but there are many functions which you will need in order to program efficiently. i.e. keywords in BASIC are like functions in C, with one important difference: in C functions can be adjusted or written to suit your needs.

The aim of the new programmer is to build a library of personal functions which you can link with and use from any program you write. Once a function has been written and tested it doesn't need to be written again. Most of the ground rules for doing this will be described now and in subsequent instalments of this tutorial.

Defining a New Function

All functions take this form:

type-specifier function name(variable list) variable declarations;

statements or function body;

Here is a useful example:

```
int cube(number)
int number;
{
   number = number * number *
   number; return(number);
}
```

'int' is the type specifier in this example. It indicates what type of data will be returned to the function which called 'cube' when it finishes processing. If you omit the type specifier from your function definition the compiler will assume you want an integer.

'int' is the default type for the value to be returned from a function. Therefore we don't need this 'int' before 'cube' in the example above. If we wrote a function which returned a floating-point number we would have to specify it as 'float'. This is a potential trouble spot for the C programmer.

If a function returns something other than an integer, but the type specifier is left out of the function definition, then in most cases garbage will be returned by the function. Or sometimes correct values will be returned, and other times garbage.

One thing is for sure, leaving out the type specifier is a good way to test Murphy's Law. Because of this potential for errors to occur, it is good programming practice to state the type specifier for all functions.

Return Values

Program control is given to a function this way:

```
main()
    {
          ...
          x = 3;
          y = cube(x);
          ...
        }
int cube(number)
int number;
        {
          number = number * number *
```

```
number; return(number);
}
```

The line y = cube(x)' tells the program to go and find the 'cube' function and perform its operations on 'x'. In this case 'x' equals three when execution is passed to 'cube'. Three dots '...' mean that other relevant commands are carried out in these parts. The value of 'x' is given to the new variable 'number', which is three.

The 'return(number)' command returns the new value of 'number' to the calling function (which is 'main()'), and assigns this value to 'y', which would be 27.

Terms 'calling function', and 'called function' need explaining. In the above example 'main()' is the calling function of 'cube' because it is calling 'cube' to perform a function for 'main()'; and 'cube ()' is therefore the called function. As expected, when the called function does its job, program control is returned to the calling function.

There are other ways we can return control to the calling function. We don't need to return a value to a variable in the calling function. For example, a function which waits for the user to press <enter> before continuing has no relevant details to pass back to the calling function:

```
int pause()
    {
     int a;
     a = getchar();
     return;
    }
```

This is the same as the 'return' statement in BASIC. Since we use the variable 'a' in the function, we must define it before it is used. Remember that pro-

Prime Artifax - C.O.D. TAX Reduction March Special

Not everyone is passing on the savings like us. Mr Keating has removed SALES TAX from computer software. All titles are cheaper. Our new prices, effective now, relect this change. To help you take advantage of this saving, for the month of February we are offering FREE C.O.D. delivery. Your postie will let you know the moment the product of your choice is ready to collect at your local post office.

We also carry the complete range of FISH disks up to number 177.

Printers/Hardware		Raw Copy	\$89	BIG Tips book for the C64/128	\$34
Star NX-1000	\$549	Commodore 64 Accessories		C64 Programmers Reference Guide	\$39
Star NX-1000C	\$549	Action Replay MKIV	\$139	Commodore 128 Subroutine Library	\$34
Star NX-24-10	\$899	Animation Station	\$139	Computer Viruses	\$29
Xetec Super Graphix Junior	\$99	Cartridge Expander (4-slot)	\$59	GEOS Inside & Out	\$37
Xetec Super Graphix	\$159	Freeze Machine	\$89	GEOS Trick & Tips	\$34
Xetec Super Graphix Gold	\$249	Lightpen	\$99	Machine Language Games for the Co	54
Amiga 500/2000 Parallel Cable	\$18	RS-232 Interface	\$89		\$34
Joystick Extension Cable	\$9	GEOS / Related	ISHIBI G	Second book of the 128	\$39
Head cleaning Kit	\$18	GEOS 64 2.0	\$89	SUPERBASE the BOOK	\$29
Amiga Accessories		GEOS 128	\$99		
Access 64	\$139	GEOCALC 64	\$69	PAYMENT Accepted by Cheque	Mo
Digi-View GOLD	\$299	GEOCALC 128	\$89	ey Order, COD, Mastercard, Bankca	
Lightpen	\$189	GEOFILE 64	\$69	VISA.	uu oi
Perfect Sound	\$159	GEOFILE 128	\$89		
Screen Filter	\$35	GEOS WRITER 64	\$59	DELIVERY by AIR MAIL when	
X-Specs 3D-Gla	\$199	Business/Productivity	ΨΟ	sible, or surface mail unless otherw	ise re
Amiga Serious	41//	Award Maker PLUS	\$59	quested. Allows 14 working days fr	om
DataRetrieve	\$109	BASIC 8 - 128	\$59	time order is placed.	
DIGA!	\$99	BASIC Compiler 64	\$59	POSTAGE of \$2.00 is charged in	1
Electronic Cashbook	\$179		\$89	NSW, VIC and QLD. WA, TAS, S	
Intro-CAD -	\$99	BASIC Compiler 128	\$49	NT are \$5.00.Prices subject to char	
Micro-Fiche Filer	\$139	Blazing Paddles CAD-PAK 128	\$99		10 7. 100 July 100
Pagesetter	\$199			without notice. Product are ordered	
Publisher PLUS	\$139	Electronic Cashbook	\$89	as required basis. Only PRIME A	KII
Amiga Wordprocessing	\$139	Multiplan	\$49	FAX lines are available ex-stock.	
Beckertext	\$199	Page Illustrator 128	\$59		
Excellence!		Printmaster PLUS	\$59	ALIGADISK DRIES (ARREITA O	Spi-
ProWrite 2.0	\$369	Printshop with Bonus PAK	\$69	Anti-Virus PAK	20
	\$169	Superbase 64	\$59		
Write & File	\$125	Superbase 128	\$69	protects against all	
Amiga Graphics & Animat Comicsetter	\$139	WARP Speed Fast Loader	\$79	known strains still ave	-lic
Express Paint	\$139	BOOKS	024	able\$8.95	
Fine Print	\$75	Advanced Amiga BASIC	\$34	ADD 11 Upgrade	
Grabbit II	\$44	Amiga Applications	\$29	ARP 1.1 - Upgrade	
Photon Paint		Amiga Assembly Lang. Pro.	\$24	your CLI\$8.95	
ProVideo PLUS	\$139	Amiga BASIC Inside & Out	\$44	Dragon's Lair DEMO	-
	\$399 \$249	Amiga C for Beginners	\$34	Amazing cartoon	
Videoscape 3-D		Amiga Disk Drives Inside & Out	640		
Videoscape Design Disk	\$49	bence the first start assemble.	\$49	animation for	
Amiga Utilities	620	Amiga DOS Inside & Out	\$37	1Meg\$5	
Amiga BOOK Disks	\$29	Amiga DOS Manual	\$44	integration,	
Diskmaster	\$69	Amiga DOS Quick Reference Manu		MANY OTHER	
GOMF 3.0	\$59	Amiga for Beginners	\$29	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	10
Mastertype	\$59	Amiga Guide to Graphics & Sound	0.2121.61	PROGRAMS - CALL	US
Marauder II	\$69	Amiga Tricks & Tips	\$34	Total Control of State	
Send to: Prime Artifax, 23 B	onnefin I	Road, Hunters Hill, 2110 NSW Or	phone y	your order through on (02) 817 0011	
Name:		Address:	1.9/1	ad AAA (Apelmico septembri	
		Postcode:			
***************************************		Usicouc			

Signature.....

Products required.

Expiry Date.....

gram control, not a value is returned to the calling function. 'pause()' would be called this way:

```
main()
{
...
pause();
...
}
```

The risk associated with no-valuereturning functions is sufficiently great that there is a data type called 'void' which is designed to warn the programmer of any breach of the rules. You can't rely on just the type specifier to tell you what is returned from a function.

The 'void' type tells the programmer never to use the function in an expression, as in the 'y = cube()' example. So it would be best to write our 'pause()' function this way:

```
void pause()
{
  int a;
  a = getchar();
  return;
}
```

Function Definitions and Declarations. When defining a function there is no semicolon after the function name. In omitting the semicolon we are telling the compiler that we are defining a function, not using it. This is describing the code that is the function, not using it. The line

void pause();

with a semicolon (as opposed to the example above which has no semi-colon) is a function declaration.

It declares what comes back from the function, and would be found in a section early in a program which would declare all the functions used throughout

the program. Forgetting to declare functions that return non- integer values to the calling function is a common C programming mistake.

A function declaration tells us what type of data a function returns, whereas a function definition tells us how that data type is actually produced i.e. it contains the body of the function. It is easier to remember that declarations give you a glimpse, definitions give you the whole picture.

Variable Lists

The variable list contains the variables that pass to the function any information needed to perform the functions task. There can be no variable list, or a number of variables separated by commas. Here is an example of multiple variables being used by a function:

```
int volume(l, h, w)
int l, h, w;
    {
    int vol;
    vol = 1 * h * w;
    return(vol);
    }
```

Variable Declarations

Each variable in the variable list must be declared. Because values are handed to the function, it needs to know what type of data these values actually are. So these declarations are for communication purposes. Note that there must be a semicolon after the declarations. And also the declarations must appear before the open brace of the function body.

Function Body

The open braces mark the beginning of the function body, and close braces the end of both the function body and the function definition. All variables used in the function body must be declared either after the open brace, or in the variable declarations just before the open brace.

In the 'cube()' example 'number' is the only variable used in the function body and is declared before the open braces. It therefore does not need to be declared in the function body.

Keep one rule in mind: A function cannot be defined within a function. This example is illegal:

```
int first_function
{
...
int second_function
{
...
}
```

Next time we will provide an explanation of why we need an argument list in the first place, and why we need to pass variables. We will also discover some interesting facts about how long variables live, and how they reincarnate.



C64 Basic BASIC, a tutorial for beginners Part 4: by Oben Candemir

INCE THE first issue we've really come a long way, haven't we? This is the most critical time now, though. The whole of the BASIC language is just about under your belts now. Some people think that because they now know all the commands they are able to program. Don't fall into this trap, programming requires more discipline than this!

In this issue I hope to show you string (if you don't recall what a string-manipulation commands is then go back and learn it again) manipulation commands & some of the finer points of the commands we've learnt. More complex program examples are included and you should take the time to go through these

carefully.

The string manipulation commands are the following:

LEN STR\$() VAL RIGHT\$(..) LEFT(..) MID\$(...)

CHR\$() ASC()

These commands can be used to enhance our usage of strings in programs. After all, programs must 'talk' to the user through the use of strings. It is only fair that we use the functions BASIC provides us to make programs more user friendly. That is a thing I'll really begin to stress from now on!

Anyway back to strings. We already

know that strings can be concatenated (fancy word for 'added' or joined), these commands basically allow us to sort through strings for information or change strings to variables and vice versa. ASC & CHR\$ are something else and the significance of these will be explained later.

The first command is LEN which allows us to determine the length of a string which the user has entered. Its template or usage is:

LEN(string\$) ... where string\$ is any valid string name.

This will return the length of the string. An example is:

Australian Commodore Review SUITE 64

Disk Magazine No 13

Double sided disk

- ★ Charles a huge graphics adventure with animation. You are Charles and must locate the missing computer and return it. Joystick control enables you to travel over 390 screens during five levels. It maintains high scores.
- ★ Stowaway a text adventure by Base Seven Software. You are a stowaway on a ship can you escape?
- ★ Blackjack Play the computer at this favourite card game. VCR Index - keep a file of all your favourite video cassette recordings, tapes or records.
- ★ Graphic Converter An invaluable utility that enables you to transfer clip art type graphics from Printshop, Printmaster, Stop Press and even future programs to other formats. You can also convert between various picture types such as Blazing Saddles, Koala Painter, Art Studio, Image System, Artist 64 and others.
- ★ Disk Diskassy This would have to be the best disk utility ever written for the C64. It's in full machine code and includes a BAM editor, Directory Editor, Sector Editor, Index Maker and Menu Creator. All are menu driven and very easy to use. Ideal for the programmer, hacker and hobbyist.

- ★ Disk Label Maker tired of boring old disk labels? Now you can print one or two sided labels complete with a directory of what's on the disk or customise your own entires to either an Epson FX or MPS801/803 printer.
- ★ Icon Changer (GEOS) Ever wished you could change your icon? This program will let you edit them to your own design.
- ★ Easy DOS A quick little program for obtaining a directory, scratching or unscratching files, renaming programs or changing your disk header.
- ★ Cruncher BASIC If your pushed for memory this program will in seven parcels compact your program as much as possible by compounding statements onto one line.
- ★ Calc A simplistic spreadsheet type program which is currently tape based but may be modified to save data to your disk drive.
- ★ Font Diskassy A character editor that also lets you create pictures by combining characters together.
- ★ Graphic Demonstrations A selection of pictures and music from hackers and artists around the world.

PLUS various other short utilities and fun programs.

Please send me issue 13 of Suite 64 @ \$12.95 □ Please send me issue 12 of Suite 64 @ \$12.95 □ Please send me issues 1-6 @ special price of \$49.95 □	Detach and send to Gareth Powell Publishing 21 Darley Road Randwick, 2031 Or Phone (02) 398 5111 with Bankcard Order
(For more information on back issues see o Name: Addres	
The last meanings are made and the second se	Postcode:
Cheque ☐ Bankcard ☐ No.:	Expiry Date:
Please add \$2 for postage and packaging a	

A=LEN(NAME\$)

'A' is assigned the value which LEN returns. This number may now be used for whatever purpose you intended.

STR\$() is a bit of an under-used command. It can be used to convert a variable containing a number into a string expression which can then be manipulated with the various commands. Remember that number variables don't offer such useful facilities. So if you ever need to manipulate a number, first use this command to convert it into a string. Example:

CONVERTED\$=STR\$(A)

If 'A' contained the number 123 then this would be equivalent to saying CON-VERTED\$="123" but more useful because 'A' can come from anywhere whilst the latter is fixed to one value. See the difference?

VAL is the exact opposite of STR\$, it converts a string to a number. Note that it's NOT a facility to convert strings like 'The cat jumped over the lazy fox' into the equivalent number expression. Rather, it converts a string such as "123" into the number value 123 ie. strips it of its 'stringiness'. Example:

NUMBER=VAL(S\$)

If 'S\$' was "123456789" then the variable NUMBER would now be equal to 123456789. Easy eh??

Now for the three most useful string operators, LEFT\$, RIGHT\$, MID\$. These commands are used to extract portions of strings. First I'll give you the templates and then explained examples on these three commands.

LEFT\$ is used like this:

(string\$)=LEFT\$(X\$,N) string\$ is any valid string name.

This assigns the string variable string\$ the leftmost N characters of the string X\$. For example LEFT\$(NAME\$,3) assuming NAME\$ holds Commodore 64 drive and expect to whiz "lisa" would return the three leftmost characters "lis" of NAME\$ ie. "lisa".

RIGHT\$ is used:

(string\$)=RIGHT\$(X\$,N)

This does exactly what LEFT\$ does but this time returns the rightmost N characters of X\$. Using the same variables as in the last example RIGHT\$(NAME\$,2) would return "sa" from the string NAME\$ which is set to

MID\$ offers a bit more power than the former two commands. It is used

(string\$)=MID\$(X\$, M,N)

What this means is that MID\$ returns N characters of X\$ starting at the Mth character. So using MID\$(NAME\$, 2, 2) where NAME\$ is "lisa" would return two characters of "lisa" starting at the second character, ie. "is".

I hope that all of this has been understood. To firm all this in your mind it is recommended that you try all the commands in an example program. Devising the exact program is up to you, and you can use it as an exercise as to how much you've learnt.

However, you may like to approach it by assigning a couple of strings of decent length and then manipulating these with the commands. Afterwards you could print the results with the good old PRINT command and see what you get and whether they were the same as you expected.

The two other commands which I've left till last are CHR\$() and ASC(). These commands require extra knowledge on computer standards, namely the AS-CII standard code, so here it goes.

The problem with computers these days is that a very diverse range of hardware and software has emerged. You can't simply bung an IBM diskette into a and work! They use different formats, and therefore are incompatible.

It may be too late to rectify this problem now, but certain standards have emerged to lessen it. One is the ASCII code (don't expect me to whiz off the meaning of the characters because I've long forgotten, but it's something like 'American Standard ... something or other!) which is a code to identify each printable character with a unique number. The thing is that all computers (telexes etc) use the ASCII code. So a 65 in ASCII stands for the capital letter 'A' on every computer you try it on. A whole list of these character codes can be found in the back of your 64 User's Manual (if you don't believe me look for yourself). These numbers/characters can be used with the CHRS() and ASC() commands.

ASC() returns the ASCII number of any character passed to it. So PRINT ASC(A\$) where A\$="A" would print a

CHR\$() returns the character which is associated with an ASCII code number. So that PRINT CHR\$(65) would print an 'A'. The importance of this may not be too apparent, but just ask yourself how you're going to print a 'carriage return' when you require it (in a sequence to the printer for example)? Hitting <return> within inverted commas in a PRINT statement won't work! Here CHR\$ comes to the rescue. If you look in your ASCII table you'll see that a 'carriage return' has a character code value of 13. Therefore a PRINT CHR\$(13) should accomplish the trick!

I must stress again that you should go to the trouble of using these commands in your programs because they'll be so much more powerful and generalised than would otherwise be the case. This month's issue didn't contain any program examples, but I'm sure that you are good enough by now to be able to use the commands I give you, in a program. For this month though, that is all! Till next time, stay programming.

HARDWARE PERIPHERAL ISTRIBUTORS

Trilogic				
Amiga Mini Amp	\$64.95	H.P.D.		
Amiga Audio Digitiser	\$99.00	Amiga Senator 3.5" disk drive	\$280.00	
Amiga Printlink	\$89.90	Amiga Senator 5.5 disk drive	\$380.00	
C64 Diagnostic Cartridge	\$54.95			
C64 Drive Doctor 1541/1571	\$42.95	Amiga Midi Interface	\$64.95	
C64 Datasette Doctor	\$34.50	Amiga 1901 conversion	\$99.00	
Datasette Backup Boards DCL1	\$29.95	Amstrad Printer Lead	\$35.00	
Expert Cartridge and utility disk	\$135.00	C64 Stereo Sound Synth	\$49.90	
Expert V3.2 utility disk	\$24.95	Citizen 120D printer	\$399.00	
Expert V3.2 system disk	\$24.95	Commodore 1M serial extension	\$20.00	
	Ψ24.93	Commodore 2M serial lead	\$20.00	
Specialist Software		Commodore Video Lead	\$18.00	
		Commodore 1M serial lead	\$18.00	
Disks 5 1/4 2S 2D 10	\$7.50	Commodore R/F lead	\$9.00	
Disks 5 1/4 2S 2D colour 10	\$15.00	C64 Centronics lead	\$38.00	
Disks high quality 3.5 MF-2DD10	\$27.00	C128 80C mono lead	\$20.00	
Amiles Callerana		Decompiler (Blitz)	\$29.95	
Amiga Software		Excelerator+ Plus disk drive	\$285.00	
Barbarian II	\$54.95	Economical fastload cartridge	\$24.95	
California Games	\$68.95	Excelerator/super 5 drive DOS upgrade chip	\$20.00	
Dragon's Lair	\$82.95	4 slot cartridge expander	\$54.95	
F16 Falcon	\$68.95	Programmer Reference Guide	\$34.95	
Who Framed Roger Rabbit		PC Printer lead	\$35.00	
Who Framed Roger Rabbit	\$64.95	Parallel cable 1541	\$32.95	
C64 Software		Parallel cable 1571	\$32.95	
	200014055	Quickshot MK I Joystick	\$12.95	
Barbarian II	\$37.95	Quickshot MK II Joystick	\$24.95	
Sinbad and the Throne Falcon	\$34.95	Quickshot MK II Turbo Joystick	\$44.95	
Sports World '88	\$34.95	Reset cartridge	\$12.95	
Thunderblade	\$34.95			
Ultima V	\$46.95	Turbo menu/ + Fastload cartridge	\$44.95	
Disk Storage Box 3.5"		Vic-20 Composite video lead	\$25.00	
YUDD 5	\$2.50			
DD 10A	\$4.95	Custom cables available on reque	e ti	
DD 40L	\$11.95	cusion capies available on reque	51!	
DD 80L	\$16.95			
Diskette Notcher	\$10.95	Commenced and an analysis of the latest and the lat		
Diskette Notcher	\$10.95	Commodore parts available, prices on request.		
Disk Storage Box 5.25			. /	
DD 5	5 \$2.50 Mail order renairs by			
DD 10	\$3.95	Mail order repairs by authorised in		
DD 50L	\$12.95	Commodore Service Centre. Phone	e for	
DD 100L	\$13.95	details.		
DD 120L	\$17.95			
DD 120L	Φ11.50			

Also phone for quote on repairs on all computers - Authorised Commcare Centre. Money Orders and Cheques welcome or use your Bankcard, Mastercard or Visa.

● HPD will make you the experts ● Mail your order to: 7/100 Hewittson Road Elizabeth West SA 5113

or phone your order now on (08)252 3300 Faxed orders (08) 252 4755 Add \$3 Postage and Packing to all prices - For drives and printers add \$10





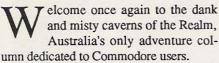






Adventurer's Realm

by Michael Spiteri



This month we have Part 1 of Realm's Super Tips, while in the Dungeon, Kamikaze Andy starts a series on the history of Role Playing Games. Then last, but not least, Barry Bolitho brings us up to date with all the hottest news in War Games.

If you would like to write to the Realm for anything to do with adventures (you could be stuck or could give help, or just give some views!) then enclose a stamped addressed envelope and write to:

Adventurer's Realm 1/10 Rhoden Court Nth Dandenong Vic 3175

If you have any queries, mark the envelope "Wargame Section" and I'll see that Barry Bolitho receives your letter.

Role-Playing freaks can write to Kamikaze Andy if any problems occur, and his address is:

The Dungeon, 44 Hawkesbury Drive Willeton, WA 6155

Free hint sheets

The following hint sheets are available free of charge from the Realm (Victorian branch only). Zork 1,2,3, Hitchikers Guide, NeverEnding Story, Pirate Adventure, Adventureland, Borrowed Time, Dracula, Pawn, Bards Tale, Faery Tale, Castle of Terror, Hobbit, Lord of the Rings.

Make sure you enclose an envelope big enough for the



Commodore and Amiga Review 70

The Dungeon

Hello, all you RPGer's out there! This month I've decided to begin an article on the various types of formats of computer RPG's available to users today. The article will discuss various aspects of RPG systems, as well as compare certain systems with others.

Computer role-playing games

Computerized RPG's began way back in the late 1970's when a US software company, California Pacific, released a program called *Ultima*. Although not the very first RPG, *Ultima* was considered a landmark achievement and soon more RPG's appeared, including *Wizardry* and *The Temple of Apshai*.

What appealed most to gamers was the relative freedom which your computer alter-ego possessed. Unlike normal adventures (mostly text-based), RPG's could simulate entire dungeons or even entire worlds in which to explore. As time passed, all the forms of software improved in quality owing to the developement of better computer systems, and so too did RPG's. Today, one has only

by Kamikaze Andy

to boot up *Dungeon Master* on the Amiga to appreciate the realism bestowed upon RPG's by modern technology.

In the beginning

Most RPG's involve the creation of a character (or group of characters), and then letting the character roam a specific scenario. Often your character has to complete quests in order to advance their statistics and unwittingly finish the game. What's this? Statistics? Yes, your character comes complete with a certainitially receive.

Most games allow for magic points to be part of one's attributes. Magic points determine your ability to cast spells, and as such are vital to most RPGs. Wizards possess a dazzling array of offensive spells, defensive spells, and others such as 'detect door' spells or 'disarm chest' spells. Often wizards can use spells to heal or resurrect other party members, so they are important!!

Once you have chosen your characters, it's time to boogie and bash some orcs. Onwards to adventure, HO!

(To be continued ...)

Wargaming the Realm

by Barry Bolitho

Ross Moore of Bellata NSW has sent in heaps of wargame tips and strategies, however he also has a problem.

"I have difficulty satisfying victory conditions in *Conflict in Vietnam*," he writes. Well, so do I, Ross, so do I. I feel that some wargame designers get it so right that they actually do recreate the tactical problem as it really was. A friend of mine paid SSI's 'Nam simulation a backhand compliment when he declared.. "It's not fair - they pop out of the bush-

es, zap you, then disappear before you can concentrate any firepower on them!" That does sound familiar. In *Conflict in-Vietnam* you can overcome this NVA tactic by using mortars, artillery and helicopters to engage the enemy and pin him down. That is, if there are enough assets available. Any comments or tips on *Conflict in Vietnam* would be appreciated by both Ross and myself.

One problem common to most letter writers is where to buy wargame software (Mike has the same comment from his adventurers). Have a look at the major mail-order firm that advertises in this magazine. They stock a comprehensive range of software for both the Amiga and C64.

Realm's Adventure Chit-Chat

Paul King of Waratah West (NSW) writes:

"As I was reading the January issue of the Adventurer's Realm, I was surprised to see that someone else has been playing Drack, as I thought your readers would only play the expensive games, seeing that my tape of Drack was on special for \$9 at K-Mart."

MS: Although K-Mart haven't got a great reputation as far as service is concerned, they very frequently 'throw out' excellent games for below pocket money. I'm sure there are many other adventurers who stick to the nice cheap adventures, since this is usually all they can afford.

Problems, Problems, Problems!!!

This month's problems section is very much shrunken down to allow more space for juicy tips.

Nick Van Heeswyk of Mt Gambier (SA) is stuck in two adventure games.

- 1) In Aztec Tomb, Nick wants to know where he can find a map, and if the tree is climbable.
- 2) In Adventure Castle (MS: Never heard of it!!), how do you get rid of the batty bat that battles the battalic staircase. Also, how do you get the gold coins in the fountain?

Scott Bullock of Alex Hills in OLD is having parmucles in Robots of Dawn. He want to know how to open the safe and to charge the blaster.

Craig Blackberry of Ulverstone in Tassie is very much stuck in two games:

- 1) In Shadowgate, how do you get the key from the skeleton in the lake, and how do you get through the middle door in the mirror room?
- 2) In Guild of Thieves, Craig wants to know how to get the chalice from the bear without him killing you. Also,

what do you do with the beating heart Corruption and how do you get to the steps in the room with the burning coals?

Paul King is stuck in a certain Erik the Viking. He has managed to put to sea in the good ship Golden Dragon, but has been unable to mend the leak, with the result the ship sinks and the game ends.

Super Hints

Well, it's been a long time coming, but it's finally here. Over the next few months I'll be printing heap and heaps of hints and tips which have been sent to me in the form of hint sheets, solutions, and maps over the last two years. So, enjoy!!!!

African Safari

Don't take the metal rod on board the boat!!

Adventure Quest

To rid yourself of the sphinx, from the edge of the Fertile Land, move n.n.n.w.n.look.e.e.e The rocky outcrop will secure you from the worm.

To move the slab of rock, say OPEN SESAME.

Give the sundial to the sun-priestess in the pyramid.

To pass the tentacled creature in the orc-tower, throw the ruby at it.

The giant is scared off if you have the wave the sling at him. You need the ball from the tree-top in the forest.

Get the snowman to drop rocks on the orcs.

To get past the Djinn, take the bag of wind from the room in the orc-tower, and open it near the Djinn.

Colossal Cave

Throw the eggs to the troll, then fee

Say plover at y2 to get to the dark room beyond the crack.

Crystals of Carus

A cross is ideal for attacking a wraith. Rub the lamp for something of value. Give the begger what the lamp gives



Listen to the conversation in Hughes' room via the door.

It's wise to try calling David from Maggy's telephone between 11:20 and 11:25. Also, try calling Hughes from Theresa's telephone between 12:05 and

If your BMW is acting up, get out as fast as you can!!

Remember to ask David about Jenny and about the letter. When having lunch with Jenny, ask her about the letter and

To remove your beard, buy the soap and razor from the pharmacy. Wet the soap in the sink, then rub it on your beard.

Deadline

There is a vital piece of evidence in the rose garden. Wait until Angus appears to be in a rage, then ask him what's

The notepad and pencil provide a very important hint when brought together.

If the kitchen seems bare of clues, try counting things.

The newspaper is also important make sure you read ALL of it.

The will reading is the beginning of the end - miss something and you may not get to solve the case.

Perhaps the person who is most obviously the murderer is even more obviously not. Still, show him the calender (pages turned), then go hide in the study.

Emerald Isle

To get to the north platform, take the small key from the hollow near the marshes. Dropping the plank across the dangerous section will help. Examine the boulder to find the key. Use this key to wind the clock at the plaza. The townsfolk will give you an ornate key, which can be used to open the gate on the platform (south).

Fahrenheit 451

Get the fingerprinter from thieves at W45-46 (ask woman).

Get chemidexer from Dr Foster's office, using paper clip to open the cabinet. Buy something from the Jewellry Emporium to see an Engraver.

Want a face change? Visit the magic shop.

Avoid crossing Fifth Ave by any method other than the walkway e44-45 and w44-45.

Leather Goddesses of Phobos

Read the comic accompanying the game. There are some important hints in it which will help you to translate the alien's message and help you survive the catacombs.

To kiss the frog you need the clothes pin and the lip balm.

The can of black stain is useful for the black circle.

Chocolate helps you to open the bars of a gorilla's cage.

Show the painting to the white mouse.

To get past the flytrap you must his at it (This hint is found on the scrap of paper you find in the cell).

Need some untangling cream? Try using the T Machine and one of the King's angles.

Thorbala - fight with her until she loses her sword. Grab the sword and hand it back to her.

The rabbit, sack of leaves and rake are red herrings (though for fun, put the rabbit in the T Machine).

Labyrinth

Congratulate the wall to escape from the Wall of Hands.

Always use the shears to get further in the maze.

At the Stone Faces, insult them to get free hints.

At the Bog of Eternal Stench, use the leg to negotiate the bog. Call Ludo if the bridge is down.

In the Underground, drop the log when slasher appears.

Perry Mason

After Paul investigates Suzanne, get Della to Barstow's Dog Kennels.

Get Della to call Epicure. Following Paul's investigation of Margot Duboq, get Della to call Brannigan.

Wait gives the witness a chance to regain composure.

Thanks to all who contributed the above tips to the Realm over the past year or so. Part 2 of Super Tips will be in the next issue.

Guide for contributors

EVERY NONTH WE receive dozens of submissions from would be writers. For these we are most grateful. If you have considered writing for the Australian Amiga and Commodore Review, here's a few guidelines. The majority of contributions are accepted, however as we have a larger number to choose from these days, a few more stringent guidelines need to be met.

Style: Easy to read, entertaining and informative. We aim to be an enjoyable easy to read publication - with a smattering of technical articles for those so inclined. We are most interested in tutorials, "how to" type articles, and general hints and tips. Programs are also sought after for our disk magazines, Suite 64 and Amiga Live!

Format: Don't include any formatting such as printer controls, centred headings,

print styles etc. Put a space after commas or full stops. Do not indent paragraphs. Numbers under 10 should be typed. We prefer contributions on disk - Commodore 64/128, Amiga, MS-DOS and even Macintosh. Don't double space. Just a straight ASCII text file is all we require. We also accept contributions via modem once you become a regular contributor. Baud rates of 300, 1200, 1200/75 and 2400 are supported.

What to include: A brief letter, if it's your first effort. Don't forget your phone number - this is the most important thing! And put your name at the top of the actual article, not just on the letter.

What you get: Fame and a little fortune. Writing is a lot of fun. You'll get payment of \$50 per 1000 words - paid about one or two months after publication and a free subscription to the magazine after your third article. We take receipt of the article as permission to publish - you may not always be contacted before we use your article.

Where to send contributions: Post articles directly to The Australian Commodore and Amiga Review, 23 Bonnefin Rd, Hunters Hill. Or call (02) 817-0011 to arrange modem transfers. Don't send us your original - we cannot guarantee return, and it may become damaged in the post. Send 5 1/4 inch disks in an Australia Post cardboard Post Pak especially designed for carrying disks. Do not use padded post bags - these have a tendency to make the postman want to bend them in half. Amiga disks can just be sent normal mail.

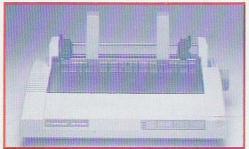
That's it! For a more detailed version of the above, call our office and ask for the complete writers guide.

Advertisers Index	X 3	Disk Magazines All	59	Parcom	21
Amiga Annual	13	E.C.P	48	Prime Artifax	65
Amiga - Live	51	Energy Control	61	Questor	9,25
Artscape	49	HPD ,	69	Spellbound	53
Cockroach	61	Island by Mail	13	Subscriptions	5
Commodore Annual	40	Megadisc	47	Viatel	30,31
	17,63,IBC	Micro Accessories	57	Westend	55
Computer Discounts	33	MicroComputer Spot	36,37,38,39	White's Computers	11
Computermate	23	Multicoin	IFC	YPA Holdings	1,OBC
Disc Company	43	Ozisoft	4	9	
		Pactronics	3,7,45		
Disk Magazine 13 (Suite	04) 0/	1 dollor lloo	0,,,10		

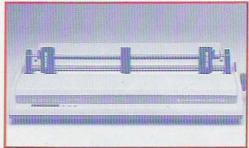
Commodore Printers the logical solution

For every Commodore computer there is a Commodore printer that is designed to cover your specific needs whether you are an owner or user of a Commodore 64 or 128, an AMIGA 500, 1000 or 2000, our PC range including the exciting new PC-COLT and PC-10 series III.

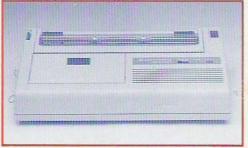
Commodore printers are designed to give you total compatibility with the rest of your computer system with built-in high performance and at the same time offering value for money.



Commodore MPS 1250 Dot Matrix Printer



Commodore MPS 1280 Dot Matrix Printer



Commodore MCS 810/820 Colour Series



Commodore MPS 2020 Dot Matrix Printer



Commodore LP 806 Laser Printer

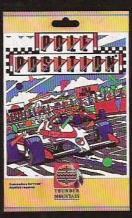


Available at your local Commodore dealer.

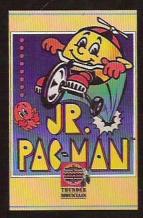
Arcade Classics



Super Pac-Man™



Pole Position™



Jr. Pac-Man™



Pac-Man™



Galaxian™



MS. Pac-Man™



Dig Dug™

Available on the following formats: IBM, Apple CBM 64 A BLAST FROM THE PAST!



EVOCDICALOR THE THUNDED

5-6 Gladstone Rd, Castle Hill, NSW 2154 (02) 899 2277 FAX (02) 899 2348

